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Evaluation of distribution models for household water treatment products in Kenya and Bolivia

Final Report

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Executive Summary

Background

Global efforts to scale up the promotion of household water treatment as well as establishing sustainable water treatment practices have been difficult. This can be attributed to challenges particular to the market at the base of the pyramid such as lack of awareness on the importance of treating drinking water, lack of access to products, particularly in rural areas, lack of a broader choice of suitable products and difficulties to establish sustainable supply chains.

The marketing of ceramic filters has been challenging since the BOP markets are largely dominated by fast-moving consumer goods and previous marketing trials with filters revealed that successful marketing is among other factors linked with the provision of microcredits.

Between January 2012 and April 2013 marketing trials for ceramic water filters and other HWTS products were carried out in Kenya and Bolivia to assess the influence of the different stakeholders responsible for community education and operation of distribution and retail sales, as well as different payment in installment options on product sale and willingness to pay for ceramic filters.

Method

Four different project sites were chosen for the marketing trial each in Kenya and in Bolivia. The sites were selected based on sufficient water supply from surface sources, keeping enough distance between the sites to avoid cross-flow of information and interest for partnership from the District Public Health and Sanitation office as well as community leaders. In site 1, the community education was done through the NGO's promoters, while the sale of products was done through a local entrepreneur or water supply network operator, in site 2 the community education and product sale were done through community health workers of the official public health system. In site 3, community groups were trained and motivated to do community education as well as product sale and in site 4, the communication as well as the sale of products was done through the promoters of an NGO.

In each site 300 households received trainings through household visits and community group training events. These households and 150 non-intervention households per site, were surveyed in each of the 8 sites (1800 households in each country) at baseline and after about 11 months of marketing the products. Quantitative questionnaires were used to collect information from households, while sales staff gathered qualitative information and records of sales

Results

Quantitative analysis of the data in Kenya as well as in Bolivia show that that people's attitudes (if they like the system they are using, if they think that it is important to treat their water, if they think that untreated water is good or bad for health) strongly correlate with the frequency of HWTS use. Also, households are much more likely to frequently use HWTS when a large proportion of neighbours also treat their water.

The project showed that engaging already well-established community groups with sales experience and an entrepreneurial spirit is an effective means of distributing products to consumers living at the base of the pyramid. However, collaborating with groups that do not have any know-how or experiences in product marketing and sale creates a high risk for failure of the distribution mechanism.

Using promoters of an NGO for community education can be effective to initiate the behavior change process but involving them in product sale is not recommended as on one side, promoters often lack sales skill and on the other side, customers often approach representatives of an NGO with an attitude of getting something for free, which has a negative effect on their willingness to buy a product from an NGO's promoter.

Conducting community training through household visits was a very important strategy to increase the awareness on the importance of household water treatment and facilitate the sale of products for household water treatment (chlorination products and ceramic filters).

The motivation and skills of the field worker to address psychosocial attributes of household water treatment during the household visits (liking the product, importance of water treatment, risk factors) are more important than the affiliation of the field worker to a community based organization, to a group of community health workers or to an NGO.

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Introduction

Although almost 80% of the world population used an improved drinking-water source at the end of 2011, large disparities exist between rural and urban areas and different regions; 83% of those without access to an improved source live in rural areas and less than 50% of the population in sub-Saharan Africa enjoyed access to an improved drinking water source (WHO/ Unicef: JMP – Progress on Sanitation and Drinking Water – 2013 update). In addition to the 768 million people without access to an improved drinking water source consume unsafe water. "Improved drinking water source" is a definition of a source with a lower risk for water contamination, but it does not necessarily imply that the water provided is safe (WHO/Unicef, 2005 – Water for life: Decade for action 2005-2015. Geneva).

Household water treatment, if applied correctly and consistently is a strategy to reduce the health risks related to the consumption of unsafe drinking water. Despite of this, efforts to promote and scale up household water treatment practices have been challenging. In his report on "Scaling up household water treatment among low-come populations" Clasen estimates that currently, 18.8 million people use a method to treat their water before consumption, such as chlorination, solar disinfection, filtration through ceramic filters or biosand filters, while 350 million people boil their water. (Clasen, 2009).

An important constraint encountered during HWTS promotion programs is the great need to create demand for household water treatment: without well conceptualized community education, behavior change and social marketing interventions it is unlikely that broad populations, particularly not the most vulnerable households, will take up consistent drinking water treatment and hygiene practices.

In addition, drinking water treatment is only taken up and sustained if people have a reliable access to the adequate products needed to carry out the behavior. The lack of product supply chains and therewith the lack of access to products for drinking water treatment in many areas pose a constraint for the promotion and sustainable application of household water treatment.

Conventional business people often hesitate to take up the sale of HWTS products. One reason is that the market for the bottom of the pyramid consumers is dominated by fast moving, cheap consumer goods and entrepreneurs are not very open to take up the sale of higher priced products that require a longer turnover. This often leads to a lack of products for household water treatment in marginalized regions. In addition the demand for drinking water disinfection is lacking in many area and first needs to be created by awareness building and behaviour change campaigns. The study conducted in Kenya and Bolivia intended to gain more insight on the combined effect of product distribution, social marketing and community education if carried out by different stakeholders such as the health sector, the private sector, community based organizations and NGO's.

Methodology

During our study we experimented with four different distribution models in Kenya and Bolivia to analyse the effect of different community education and distribution models on the demand for household water treatment, the sale of different products, willingness to pay as well as the mechanisms, effectiveness and cost (profit margins) of different actors involved in the supply chain of HWTS products.

In each country 4 sites were selected to implement and evaluate a specific distribution and social marketing model. In site 1, the community education was done through the NGO's promoters, while the sale of products was done through a local entrepreneur or water supply network operator, in site 2 the community education and product sale were done through community health workers of the official public health system. In site 3, community groups were trained and motivated to do community education as well as product sale and in site 4, the communication as well as the sale of products was done through the promoters of an NGO.



Criteria for the selection of intervention sites were:

- Sufficient water supply from surface sources (high likelihood of the water being contaminated),
- No previous safe water or household water treatment promotion activity that comprised the distribution of free products had taken place in the area
- Enough distance between the sites to avoid cross-flow of information
- Interest for partnership from the District Public Health and Sanitation office/ Community leaders.

In each site 300 households were targeted for the intervention scheme. 150 additional households in each site served as control group. HWTS technologies promoted in Kenya were Chlorination and Ceramic Filtration. In Bolivia, information on Chlorination, SODIS and Ceramic Filtration was provided during the community education, while the only the installment of a supply chain for Ceramic Filters was actively supported.

In both countries the supply chains for ceramic filters were set up and coordinated through NGO's as local partner organizations: Kenya Water for Health Organisation in Kenya and Fundación SODIS in Bolivia.

Baseline data were collected from 300 intervention households and 150 control households in Kenya from February to March 2012 and April to Mai 2012 in Bolivia. Product marketing activities and community education were implemented from April 2012 to February 2013 in Kenya and Mai 2012 to February 2013 in Bolivia. Final data were collected from 300 intervention households and 150 control households in Kenya from January to February 2013 and from February to March 2013 in Bolivia.

Data collection

Printed questionnaires were used during baseline data collection. For the collection of final data we switched to mobile data collection using mobile phones.

The questionnaire was loaded onto the handset and the interviewers were able to mark or write the answers directly on the handset as well as marking the GPS coordinates of the place, where the interview was taken. The mobile phones were handed out to the interviewers in the morning and recollected in the evening in recharge the phones. We had to buy an additional battery for each handset as the GPS consumed more battery than expected. High power consumption was caused by the GPS function, but constantly turning the GPS off and on was not an option as it takes a long time for the mobile phones to get the GPS coordinates.

Monitoring of the interviewing process going on turned out to be very effective since the supervisor is able to check the submitted surveys instantly. The program allows the supervisor to see the start and end time of each survey and locate the place where the interview was taken due to the GPS coordinates. Good internet connection is necessary to monitor the on-going process. If no internet connection is available in the field, questionnaires can be downloaded from the handsets through a direct cable connection to the computer of the supervisor in the evening. In this case the controlling of the questionnaires has to be done in the evening. With temporary breaks in the network connection the questionnaires were saved on the mobile phones until there was reception signal and then sent automatically.

The use of mobile data collection eliminated the need for manual data entry and therewith also reduced the potential for making mistakes during data entry.

Interviewers preferred to work with handsets instead of filling out questionnaires on paper.

During the final data collection in Bolivia we faced some challenges with the interviewers. We had to dismiss the first team of interviewers since some of them manipulated the data by entering fake interviews. Instead, we decided to use the more reliable staff of the Fundacion SODIS (FS) to collect

the data. However, we had to repeat the training of the interviewers and the data collection took much longer than expected.

Recommendations for mobile data collection:

- Careful training on the use of mobile phones is necessary. In Kenya some of the interviewers had not used a phone with a touch screen before.
- Buy spare batteries
- The person who is controlling the data needs to have access to a good internet connection.
- The less text has to be entered manually the better, as less technical problems can occur.
- The language on the dash board should correspond to the language of the interviews.
- The supervisor who collects the phones in the evening needs to have access to reliable electricity to be able to charge the phones.
- The bigger the screen the easier to handle the phone

Intervention in Kenya

Description of intervention sites



In Kenya, intervention sites were selected in Munyu and Thuthua area in Thika East District. In Thika East District, most people get their water from the turbid river. Also in Yathui area in Mwala District most households get their water from surface sources. Villages around Muthetheni in Mwala District get their drinking water by scooping sand from the riverbed of Nthwake river

Establishment of the supply chain for products

For the establishment of the supply chain for ceramic filters, a relation was established with the Kenya Ceramic Project. KCP produces ceramic water filters in Kitale and sells them ex-factory for 1100 KSH (12.7 USD). A bulk delivery of 200 ceramic filters was made to the project area in Thika, for a whole sale price of 1300 KSH (15 USD) per filter. From Thika, KWAHO transported 40 filters to the project area in Mwala, where to wholesale price mounted up to 1350 KSH (15.6 USD). The retail price of filters was 1500 KSH (17.3 USD) in Thika and initially 1600 KSH (18.4 USD) in Mwala (later reduced to a subsidized price of 850 KSH). Prior to the delivery of 200 ceramic filters, KWAHO provided a financial guarantee to the Kenya Ceramic Projekt. Wholesalers however made the payments for the filters directly to KCP. At the retail level, individual customers were able to pay for their filters in installments. Filters were handed out once the full payment was received.

For establishing the supply of Chlorine products, a collaboration was established with PSI, who directly supplied the Chlorine products to the wholesalers involved into the project. The wholesale price for a 150 ml bottle of Waterguard was 16.5 KSH, a pack of 20 tablets of Aquatabs 42 KSH and a PUR sachet 4.22 KSH.

Intervention in Area 1: Munyu, Thika (Promotion: NGO / Sale: entrepreneurs)

In Munyu, a promoter from KWAHO was responsible for promoting HWTS. The promotion was mainly done through household visits, together with information dissemination during community meetings and other social gatherings.

The responsibility for the retail distribution and sale of HWTS products was given to the operating committee of the community water project (CWP) in Munyu. The CWP is a financially self-sustainable group, managing the piped water supply scheme in the area. The water supplied is collected from the river and directly supplied to customers without prior treatment. The CWP sold filters to their existing network of customers. Payment in installments for filters was possible, the payment rates were added to the water bill.



Filters in Munyu were sold for 1'500 KSH. CWP obtained a profit margin of 200 KSH from the sale of one filter.

In addition to CWP, two shop owners were selling HWTS

products, mainly Waterguard, but they also sold Ceramic filters for 1'500 KSH.

Intervention in Area 2: Thuthua, Thika (Promotion & Sale: Public Health System)

In Thuthua, the direct promotion and sale of HWTS products (ceramic filters and Waterguard) was conducted by the community health workers of the Community Health Unit in partnership with the Public Health Officer. The promotion approach included community meetings and household visits. The community health workers visited households mainly over the weekend.

The KWAHO promoter trained the community health workers and assisted in process monitoring.

Ceramic filters were supplied on credit for 1'300 KSH per piece to the Public health office, where the CHW's could pick them up for sale. CHW's sold filters within the community for 1'500 KSH and gained a profit margin of 200 KSH.

Intervention in Area 3: Muthetheni/Yangila, Mwala (Promotion & Sale: CBO)

In Yangila/ Muthetheni two community organizations, "House of drum youth group" and "Utithini organic self-help group" were trained and supervised through the KWAHO promoter while doing the promotion and sale of HWTS products to households. While "House of drum youth group" had an existing working relation with PSI prior to the start of the project as wholesaler for health products including Chlorine and had corresponding business experience, "Utithini organic self-help group" did not have previous experience with the marketing of products. During the intervention, "Utithini organic self-help group" worked as retailers, while "House of drum youth group" worked as wholesaler and retailer.

Filters were sold to the community by both CBO's after they bought them from the KWAHO promoter based in Mwala, who acted as a wholesaler for the filters. The groups collected them by order after pre-payment of 1'350 KSH per filter. The CBO sold the filters to the community members at 1'600 KSH, gaining a profit margin of 250 KSH.

At the time of midterm evaluation however, no filters were yet sold in this intervention site. The selling price therefore was lowered to a subsidized price of 850 KSH.

Intervention in area 3: Yathui, Mwala (Promotion: NGO / Sale: NGO)

In Yathui the promotion and sale of HWTS products initially both was done through a KWAHO promoter. Promotion activities comprised household visits, community group trainings and a number of community demonstrations. However, the sale of chlorine products through a promoter had to be ceased as household were claiming to receive products for free as they were distributed through an NGO. Subsequently, four entrepreneurs were identified and established as retail distributers for Chlorine products.

Ceramic filters were directly sold by the KWAHO



promoter, initially for a price of 1600 KSH (The selling price in Mwala District was higher than in Thika District to cover for the cost of transport of filters from Thika to Mwala).

At the time of midterm evaluation no filters were yet sold in this intervention site. The selling price therefore was lowered to a subsidized price of 850 KSH. Subsequently,

Qualitative Results, Kenya

Area 1: Munyu, Thika (Promotion: NGO / Sale: entrepreneurs)

The committee of the community water project (CWP) sold 51 filters for a price of 16.5 USD. 2 local shops in the project area sold 4 filters.

Organizing the sale of filters through a community based enterprise that is already providing piped water in combination with community education through a promoter was a successful approach.

CWP however received several complaints from customers that they should provide safe water instead of only collected river water, distributing it untreated to the households and selling household water filters to the household who consume the water they provide. CWP enabled payment in installments to their customers.

In area 1, in addition to CWP several retail shops sold chlorination products, mainly water guard and also took up the sale of ceramic filters. However the sale of the relatively expensive ceramic filters through these kiosks has been challenging due to space limitations and the difficulty to collect payment in installments. A lack of customers trust into the kiosk owners prevented them to pay their filters in installments to the kiosks (filters were handed out after the full payment for the filter was received). The kiosks are more suitable to sell small items such as Waterguard and PUR.

Area 2:: Thuthua, Thika (Promotion & Sale: Public Health System)

The community health workers sold 40 filters for a price of 16.5 USD

Sale and social marketing with the health centre and the community health workers (CHW) in Thika worked out very well. The initiative was strongly supported by the Public health officer in Thika, who prompted to CHW's in this area to define sales targets. The group of CHW's were motived in selling water filters and interested in making profit from the sale.

However, the Community Health Workers (CHW) initially were having some difficulties to manage the finances. As they sold the water filters by installment payments and did not have an accountant responsible for this finance, the group had difficulties to keep records of all sales and payments after several months. After a financial management training was provided, the CHW were able to organise themselves and a good bookkeeping of their sales. The CHW's sold the filters at different prices. The wholesale price was 1'300 KSH and the recommended retail price 1'500 KSH. Nevertheless, some CHW chose to rise the retail price to increase their profit margin from 200 up to 300 or 400 KSH. No chlorination products were sold in this area

Area 3: Muthetheni/Yangila, Mwala (Promotion & Sale: CBO)

One of the community groups sold 11 filters for a price of 10 USD and had a good sale of chlorination products

The second community groups did not sell any filter and did not have a good sale of chlorination products.

Working with Community based organisations (CBO) revealed that organizing distribution and social marketing through a community based organization might be successful, but only if the group is well organized and has sales experience.

One of the groups involved in community education and products sale: the CBO "House of Drums" was selling various PSI products before we introduced the project. During the project period the group was very successful selling smaller HWTS products and also was able to sell a number of water filters after the price was lowered from 16.5 USD to 10 USD.

The other CBO "Itithini Organic Self Help Group" did not have any sales experience and their working method was not very dynamic. Their sales skills were limited and keeping their motivation up was difficult as they were not earning and profits. "Itithini Organic Self Help Group" did not sell any filters and only a very limited amount of chlorination products.

Area 4: Yathui, Mwala (Promotion: NGO / Sale: NGO)

The NGO promoter sold 1 filter for 17.5 USD and 26 filters for 10 USD

The NGO promoter was very committed in implementing an effective community education campaign. He was able to reach all of the 300 households several times and participated in various community gatherings. However, the model of combining community education and product sale through a promoter was problematic as the households trained demanded goods for free as they perceive NGO's as charity organizations. The sales model therefore was reorganized and the sale of chlorination products handed over to local shops in the project area.

The promoter continued with the sale of ceramic filters, but only was able to sell filters after the price was lowered from 17.5 USD to 10 USD. He offered payment in instalment schemes to the customers

and handed over the filters after he had received the full payments for the filters. For this scheme to be acceptable within the community, the promoter had to place much effort to build a relationship of trust within the community.

Quantitative results Kenya

Areas and willingness to pay

Area 1: Thika District. Intervention scheme: community education through the promoter of an NGO, product sale through water utility and local entrepreneuers

Area 2: Thika District. Intervention scheme: community education as well as product sale through the community health workers of the public health system

Area 3: Mwala District. Intervention scheme: community education as well as product sale through a community based organization

Area 4: Mwala District. Intervention scheme: community education as well as product sale through the promoter of an NGO.

The analysis of baseline data revealed a significant difference in the characteristics of the intervention sites chosen in Thika District and the sites in Mwala District, which are more remote and have a higher employment rate in Agriculture.



Fig 1. Occupation of people interviewed in the different intervention sites

Households mainly engaged with agricultural income generating activities had a lower willingness to pay for ceramic filters.



Fig 2. Willingness to pay for filters of households with different occupations

A significant regional difference between Thika District and Mwala District, which is more agriculturally oriented than Thika, was found in the willingness to pay for ceramic filters: In Mwala, only 13% of households were willing to pay more than 11 USD at baseline, and only 4% of households were willing to pay more than 11 USD after the intervention, while in Thika, 31% of households were willing to pay more than 11 USD for a ceramic filter at baseline and 18.55% of households were willing to pay more than 11 USD after the intervention.

In all regions 79% of all households were not willing to pay more than 11 USD for a ceramic filter: 51% were willing to pay up to 5.4 USD, 28.3% were willing to pay 5.5 to 10 USD.



Fig 3 Willingness to pay for water filters in different intervention sites

Also, the willingness to pay for ceramic filters was strongly correlated with the amount of money available per week at baseline.



Fig 4. Willingness to pay for ceramic filters vs the household's amount of money available per week

Use of household water treatment

In all areas, the use of household water treatment increased by an average of 20% from 61.4% to 81%. In the different interventions sites it increased from 65.5% to 85.9% in area 1, 60.75 to 69.3% in area 2, 58.7% to 81.1% in area 3 and 60.6% to 87.5% in area 4. A larger influence of the intervention was observed on the frequent use (defined as using the method often to always) of household water treatment it in increased from 40.2% to 62.9% in area 1, 35.4% to 51.8% in area 2, 25.5% to 69.9% in area 3, 35% to 73.6% in area 4; and from 34.6% to 65% in all areas in average.

Before the community education activities were implemented, a lower number of households in Mwala District used Chlorination to disinfect their drinking water; 30% in area 3 and 33% in area 4, compared to 68.6% of households in area 1 and 55.7% in area 2 in Thika District having a chlorine product available. The intervention increased the availability of chlorine in the household in Mwala District by 27.3% in area 3 and 10.3% in area 4.



Fig 5 Use of HWTS product before and after the intervention in 4 different sites.

In area 1 and 2 however the availability Chlorine products in the households decreased. In those areas more people said that they would be boiling and 5% of households in area 1 and 10% in area 2 switched to using a ceramic filter. Only very few ceramic filters were sold in area 3 and 4 - even after the selling price of the filters in these areas was reduced to 10 USD.

Households in all areas had the impression that a higher number of neighbours are using household water treatment. The percentage of neighbours using increased by 23.6% to 54.3% in site 1, by 23.7% to 54.5% in site 2, by 48.1% to 75% in site 3 and by 37.6% to 69.4% in site4.

Source of information

Before the intervention, radio was the most important source of information for the households in all areas. After the intervention, the promoter was the most important source of information for households in site 1 (24.4%), Community health workers for households in site 2 (33.3%), community based organizations (65%) and the promoter (30.8%) in site 3 and the promoter in site 4. 61 to 62% of households in site 1 and site 2 received a household visit and 56% stated that the promotion changed their behaviour. 91% of households in site 3 and site 4 were visited and 79% to 88% confirmed that the promotion changed their behaviour.



Fig 6 Information sources in the 4 intervention sites

Factors influencing HWTS use and frequent HWTS use

Single factor analysis of different factors influencing HWTS use and frequent HWTS use revealed that mostly factors relating to people's attitude, risk perception and social norms were strongly correlated with HWTS use as well as frequent HWTS if they think that it is important to treat the water, if they like the system they are using, if they think that drinking raw water is good or bad for health, and if a high number of neighbours are using the method. A very strong correlation was found between HWTS use and if the household had received a household visit, found it useful and if people think that the promotion changed their behaviour. See detailed results of chisquare values of different factors correlated with frequent HWTS use in different sites in the table 1.

At the baseline the amount of money available every week was correlated with HWTS as well as frequent HWTS in all sites except area 3.



Fig 7. Frequent use of HWTS vs money available weekly in different sites

Outcome variable: Frequent use of HWTS	в	S.E.	р	OR	95% C.I. fo	r OR
···· • • • • • • • • • • • • • • • • •					lower	upper
Education level	.400	.123	.001	1.491	1.172	1.898
Turbidity of water	.230	.139	.098	1.258	.959	1.651
Promotion received	-2.248	.410	.000	.106	.047	.236
Information through health center	368	.227	.106	.692	.443	1.081
Information through CBO	.132	.196	.501	1.141	.777	1.677
Information through Promoter	.144	.207	.486	1.155	.769	1.735
Information through Shop owner	263	.351	.454	.769	.386	1.530
Information through Com. Health Worker	260	.223	.242	.771	.498	1.193
Information through Com. Meeting	.910	.467	.051	2.485	.996	6.202
Information through Demo in town	1.254	1.305	.337	3.504	.272	45.224
Information through TV, Radio, Newspaper	-1.288	.363	.000	.276	.135	.562
Into through other	-1.780	1.019	.081	.169	.023	1.244
Did promotion change behaviour	-1.798	.306	.000	.166	.091	.302
Like the method used for treatment	.717	.076	.000	2.049	1.764	2.380
Importance of treating the water	.537	.099	.000	1.711	1.410	2.077
Percentage of neighbours using HWTS	.671	.072	.000	1.957	1.699	2.254
Untreated water good or bad for health	.074	.046	.109	1.077	.984	1.179
Handwashing index	.261	.054	.000	1.298	1.167	1.444
Money available per week	.000	.000	.202	1.000	1.000	1.001
WTP for ceramic filters	.163	.092	.078	1.177	.982	1.411
Constant	-3.872	1.043	.000	.021		

R2=0.294 (Cox and Snell), R2=0.406 (Nagelkerke), Model x2(20)=585.480 p=0.000

Table 1. Multvariant logistic regression with frequent use of HWTS as outcome variable

Conclusions Kenya

In Kenya, the logistic regression for frequent use of household water treatment after the intervention revealed that sociopsychological factors such as emotional attributes (if they like the system used – OR: 2.05, CI: 1.8-2.4), if they think it is important to treat the water (OR: 1.7, CI: 1.4-2.1) and social norms (how many neighbours are using household water treatment – OR: 1.9, CI: 1.7-2.3) as well as the education level (OR: 1.5, CI: 1.2-1.9) have the strongest influence on the frequency of household water treatment.

Not a significant influence on frequent use of household water treatment had the risk awareness of users (if they think that drinking water causes diarrhea or other illnesses or has no impact). Also the economic status of the household only in a single factor analysis was correlated significantly with frequent use.

Highly significant but with a smaller odds ratio of 0.104 (CI:0.05-0.2) was the fact if they received a promotion including household visits or not. A stronger effect (OR: 1.3, CI: 1.2-1.4) had the handwashing index, but the two variables are not independent since during the household visits training was provided on household water treatment as well as handwashing. Not significant was the channel used to disseminate the information, the data collected indicates that it does not make a great

difference if household visits for community education are conducted by promoters of an NGO, by community health workers or by members of a community based organization.

We therefore can conclude that community education through household visits, independent of the stakeholder carrying out the activity, is an important strategy for social marketing of HWTS products. Such an activity should be complemented by disseminating information through TV & Radio (OR: 0.28, CI:0.14-0.56).

The sales experiences showed that the marketing of products requires a sales force with sales experience and an entrepreneurial spirit that involves the definition of sales targets. Community based organizations or community health workers successfully can be used for selling products, but they need to be equipped with the adequate management skills and should have the motivation to make sufficient profit through the sale of the products.

Very promising is the approach of selling products through water supply utilities. Enterprises, providing a basic service have a good predisposition to distribute higher priced products since the collection of payment in installments can be added to the water bill.

Working with groups that do not have any know-how or experiences in product marketing and sale is not recommended since the risk for failure of the distribution mechanism is high.

Using promoters of an NGO for community education as well as product sale is not recommended as on one side, promoters often lack sales skills and on the other side, customers often approach representatives of an NGO with an attitude of getting something for free, which has a negative effect on their willingness to buy a product from an NGO's promoter.

Local entrepreneurs with small kiosks have sufficient sales experience but the sale of bulky and expensive products such as water filters is a challenge due to space limitations and challenges with payment in installments schemes. Fast moving consumer goods such as chlorination products can be sold well through small kiosks.

Questions on income levels and what an individual household would buy with 20 USD showed that the majority of household would spend their money on food (data not shown). The purchase of a higher priced product for water treatment such as a ceramic filter is a challenge for households living at the base of the pyramid. In Mwala District ceramic filters were only sold after the price was lowered from 17.5 USD to 10 USD. In the whole project area only a few customers bought their filters with an upfront payment. To offer customers the opportunity to pay for a filter in installments is an important element that facilitates product sale. If filters are handed out after the full payment has been received, a relation of trust between the customer and the seller is essential to motivate customers to buy a filter through such a scheme.

Intervention in Bolivia

Description of intervention sites

In Bolivia, two of the chosen areas were peri-urban areas within the municipality of Cochabamba: Villa Granado, is a middle class area where most people have access to piped water, but of low water quality (the water has odour and is coloured). In Villa Granado most people boil their water or they own sophisticated expensive water filters.

Valle Hermoso is part of the Cochabamba city but it is a peri urban area, located slightly outside of the city centre. The majority of people living there are migrants. The city of Cochabamba supplies water only twice a week to this area as water is rationed in the whole city and middle class areas are prioritized. Therefore, most people rely on water trucks, which are privately organized and illegal. The source of this water is mostly unknown and contaminated. 80 liters are supplied for 5 Bs. As a consequence most people buy 20 litre water bottles for drinking at a price of approximately 12 Bs (2 USD).

The third area was in the Province Arbieto about 45 Min drive away from Cochabamba. The two settlements called 20 de Octoubre and Alto Arrumani consist of several closely located villages. Households in this area get their drinking water through water trucks or collect it from a river.

The fourth area selected was in the Province of Chapare: Villa Tunari, located in a lowland area with tropical climate. Households in this area are connected to a gravity water supply system, which is not operated reliably. Therefore many families consume water bottled in 20 Liter bottles. These bottles cost 12 Bs (about 2 USD) and provide water for a family for about a week.

Establishment of the supply chain for products:

The Fundación SODIS assembles Ceramic Filters using ceramic candles imported from Brazil and locally produced plastic housings. The Filters are supplied to retailers on credit without any interest rates. Payment in installment schemes are offered to households and support the sale to low income households. The wholesale price of the ceramic filters is 190 Bs (26.5 USD), while the retail price is 220 Bs (31 USD), offering a profit margin of 30 Bs (4 USD).

Bags with bleach for chlorination are being sold in every shop and PET-bottles are available locally, therefore no special supply chain for the delivery of chlorine products or SODIS bottles was set up by FS.

Intervention in Area 1: Villa Tunari, Chapare region (Promotion: NGO / Sale: entrepreneur)

In Villa Tunari the promotion was done by a promoter from Fundación SODIS with a main focus on household visits: Three visits per household were conducted. During the first visit the promoter provided information about HWTS in general as well as hygiene and sanitation. In the second and third visit more emphasis was put on marketing of HWTS products and monitoring their use.

The sale of the Ceramic filters was done through a private institution, 'Junta del Suministro de agua Potable' (JASAP), which is administrating the piped water supply. JASAP provided most filters on credit, payable in three instalments. The instalment was automatically added to the monthly water bill. Filters were provided upfront since JASAP through adding the creditable amount to the water bill had a good control mechanism to assure payment.

Intervention in Area 2: 20 de Octubre and Alto Arrumani, Arbieto region (Promotion & Sale: Public Health System)

In Arbieto community education and product sale was done by Community Health Workers. Each household received two visits. During the first visit the health workers put the focus on providing general information about HWTS as well as hygiene and sanitation. During the second visit, more emphasis was put on marketing of HWTS products. The FS employee Xavi was supervising the health workers during the project period. In addition to the household visits, two workshops with the community leaders were conducted.

Intervention in Area 3: Valle Hermoso, Cochabamba region (Promotion & Sale: CBO)

In Valle Hermoso community education and product sale was done by a women group, which is part of the "Obispo Anaya" hygiene education program. Leaders of the women groups conduct two visits per household, in addition to several community workshops that were held together with the community leaders. The FS employee Xavi was supervising the women group during the project period.

Intervention in Area 4: Villa Granado, Cochbamba region (Promotion & Sale: NGO)

In Villa Grandado, community education and product sale was done by Promoters of the Fundación SODIS. Equal to Villa Tunari, three visits per each households were conducted.

Qualitative results, Bolivia

Area 1: Villa Tunari, Chapare region (Promotion: NGO / Sale: entrepreneur)

The private water supply utility "Junta del Suministro de agua Potable' (JASAP)" sold 15 filters for a price of 31 USD.

Similar to Kenya, also in Bolivia the model of combining filter sale through a water supply utility with community education through a promoter turned out to be effective. JASAP will continue with the sales of ceramic filters after the end of the research project. Even though the sales were relatively low, the model proved to be sustainable. Problems with sales were encountered during the implementation as several NGOs had handed out free products for household water treatment as Villa Tunari lies in a zone where several emergency reliefs interventions had taken place earlier.

In addition, JASAP did not actively market the water filters by themselves and they decided to sell the filters to their customer without a profit margin for JASAP. The justification for this was that JASAP should supply their customers with safe water but they are not able to meet that target. Customers

were charged the buying price (includes transport from Cochabamba to the JASAP office in Villa Tunari) of the ceramic filters of 220 Bs (around 30USD) per filter. (The pick-up price of the filters from the FS office is 190 Bs.).

Area 2: 20 de Octubre and Alto Arrumani, Arbieto region (Promotion & Sale: Public Health System)

The health center and the community health workers did not sell any filters.

In this area the health centre and health workers were responsible for the promotion as well as for the sale of products. The health centre is legally not allowed to sell any products to make profit. The Community health workers (CHW) were not formally organized into a group, and showed no desire to organise themselves to get involved into the sales. In addition, the health workers had very little interest to sell the filters in their leisure time. Therefore, this model was not successful.

Area 3: Valle Hermoso, Cochabamba region (Promotion & Sale: CBO)

The community organization "Obispo Anayo sold 114 filters for a price of 31 USD.

In Valle Hermoso the promotion and the sale of the filters was done through the women's group, "Obispo Anayo". The group had a dynamic working mode and had experience in selling smaller products, which resulted in very high sales numbers of ceramic filters.

Filters werde sold at a price of 220 Bs (around 30USD), with a profit margin of 30 Bs (about 4 USD) per filter sold. Fundación SODIS provided the filter to the women's group on credit and collected the money from the group after the sale of the filter. The households had the possibility to buy the filters in instalments, however most households bought the filter with an up-front cash payment.

Each woman was in charge of several households and promoted and sold the water filters to her designated households. Obispo Anayo continues with the sale of ceramic water filters after the end of the implementation activities..

During the final data collection in Valle Hermoso however we could not find the same number filters sold through the women's group in the project areas. Further investigations to find out to where the women's group has sold the filters currently is still on going.

Area 4: Villa Granado, Cochbamba region (Promotion & Sale: NGO)

The NGO promoter sold 2 filters for 31 USD

In Villa Granado, the Fundación SODIS' promoter Wilson Calle was responsible for the promotion as well as the sales of the water filters.

During the baseline data collection, many household were very interested to buy a filter. However this interest decreased after the FS conducted a drinking water quality test and the results showed that the water at that time was safe for drinking.

In addition, the promoter lacked the necessary sales skills and consequently he did not succeed to establish a good relation with the community from this urban area.

Thus, in Bolivia, the model of combining community education and product sale through the promoter of an NGO did not work very well.

Quantitative results Bolivia

Areas and willingness to pay

Area 1: Valle Hermoso. Intervention scheme: community education as well as product sale through a women's group

Area 2: Villa Granado. Intervention scheme: community education as well as product sale through the promoter of an NGO.

Area 3: Arbieto. Intervention scheme: community education as well as product sale through the community health workers of the public health system

Area 4: Villa Tunari. Intervention scheme: community education through the promoter of an NGO, product sale through a water utility and local entrepreneuers

The analysis of baseline data revealed significant difference between the different intervention sites. While the type of employments in Valle Hermoso and Villa Granado, two urban areas of Cochbamba, are comparable, Arbieto shows the highest level of self-employed households, while the highest agricultural employment can be found in Villa Tunari.



Fig 8. Occupation of people interviewed in the different intervention sites

Comparing the occupation with the willingness to pay for filters reveals a highly significant correlation of $\chi^2(49)=131.95$, with self-employed households showing the lowest willingness to pay.



Fig 9. Willingness to pay for filters of households with different occupations

The willingness to pay for water filters was found to be highest in area 2, Villa Granado. In all regions the willingness to pay was found higher at baseline than after the intervention! The majority of all households (80.2% of all households at baseline and 85.4% after the intervention) stated that they would not be willing to pay more than 18.5 USD for a ceramic filter.



Fig 10. Willingness to pay for water filters in the different intervention sites

Also in Bolivia, a single factor analysis showed that the willingness to pay for water filters was highly significantly correlated with the income level (expressed through the amount of money available weekly).



Fig 11. Willingness to pay for ceramic filters vs the household's amount of money available per week

Use of household water treatment and source of information

The analysis of HWTS use before and after the intervention in the different project areas revealed that for water treatment mainly boiling is used by 88.5% (69.1% at baseline) of the households and 25.5% (17.9% at baseline) of households in all regions use bottled water (20l gallons) for drinking water. Filtration (1.2%(bl) - 3.2%(ai)), Chlorination (0.3%(bl) - 3.6% (ai)) or Solar Disinfection (1.5%(bl)-9.6%(ai)) are used only marginally used at baseline as well as after the intervention, except for the use of ceramic filters which increased by 16% in area 4, Villa Tunari and by an average of 7.6% in all intervention regions.

The highest change in water treatment behaviour was found in area 3, Arbieto, where the use of HWTS increased by 17.9% from 74.1 to 92% and the frequent use of HWTS (defined as using the method often to always) increased by 31.3% from 52.1% to 83.4%.



Fig 12. Use of HWTS and HWTS products before and after the intervention in 4 different sites

While the use of HWTS increased in all areas after the intervention, fewer households in all areas had the impression that their neighbours are using any method for household water treatment. The percentage of people stating that their neighbours are using HWTS decreased by 9.5% in area 1 (37.89-28.47%), 28.5% in area 2 (58.22-29.77%), 13.4% in area 3 (36.36-23.01%) and 0.74% in area 4 (34.99-34.25%)

Interestingly, we could not trace back the behaviour change in site 3, Arbieto to a particular information source as only 10.3% of household received information on household water treatment – through the health centre. In area 1, Valle Hermoso, the most important source of information was the women's group, reaching 51.5% of the households. In area 2, Villa Granado and in area 4 Villa Tunari, the most important source of information was the promoter, reaching 63% (area 2) and 98.4% (area 4) of all households.



Fig 13. Information sources during the intervention in the 4 different intervention sites

Conclusions Bolivia

In Bolivia we encountered a large discrepancy between the number of filters sold in the different intervention sites and the number of filters found in the households during the final data collection:

Number of filters sold according to sales records of the Fundación SODIS: Area 1: Valle Hermoso: 114 Filters sold Area 2: Villa Granado: 2 Filters sold Area 3: Arbieto Region: 0 Filters sold Area 4: Villa Tunari, Chapare: 15 Filters sold

However, the following number of additional filters were found in the households during final data collection (the number does not include filters that were available in the household already during baseline data collection.

Area 1: Valle Hermoso: 12 additional filters in HH Area 2: Villa Granado: 7 additional filters in HH Area 3: Arbieto Region: 22 additional filters in HH

Area 4: Villa Tunari, Chapare: 46 additional filters in HH

In view of this discrepancy we are not yet in a position to draw any conclusions. We suspect that a third organization has distributed ceramic filters for water treatment during the time of our project intervention in Arbieto and Villa Tunari. Further investigations on the type and source of the additional filters in the households are currently going on. In addition, we are also assessing to where the women's group in Valle Hermoso sold their filters,

Annex

Data Sheet Comparing 4 Intervention sites, Baseline - Final Data Sheet Baseline 4 Sites Intervention/Control Data Sheet Final 4 Sites Intervention/Control Questionnaire Scientific Poster presented at the conference for Water & Health in Chapel Hill, USA, Oct 2013

Analysis Kenya, comparing different areas

1= Water supply utility (Thika), 2= Community health workers (Thika), 3= CBO's (Mwala), 4= Promoter of the NGO (Mwala

Area	1A - BL	1A - Final	Δ	2A - BL	2A - Final	Δ	3A - BL	3A - Final	Δ	4A - BL	4A - Final	Δ
N Occuption	293	310		298	303	A	317 24 BL	299	4	312	299	1
None	9.2	TA - Filldi	Δ	ZA - DL 5.9	ZA - Filidi	Δ	5A - BL 0.6	SA - Fillal	Δ	4A - DL 2.2	4A - Filldi	Δ
Housewife	24.6			12.4			5			3.5		
Retired	1			0.7			0			1.6		
Agricultural	35.2			40			73.5			69.2 10.3		
Employed	15	-		6.5			6.3			7.1		
Other	1.4	240		5.9	202		2.8	200		5.1	200	
Turbid water	78.8	310		62.3	303		310	299		27.2	299	
Ν	301	310		305	303	_	310	299		308	299	
Money available weekly 1 1-5 4 USD	1A - BL 50.3	1A - Final	Δ	2A - BL 24.3	2A - Final	Δ	3A - BL 63.1	3A - Final	Δ	4A - BL 44.2	4A - Final	Δ
5.5-10.9 USD	33.9			29.5			24.3			35.6		
11.0-16.5 USD	12.5			15.4			5.7			10.6		
22.0-27.4 USD	1.0			8.2			1.9			3.5		
> 27.5 USD	0.7	310		6.6	303		1.3	200		2.2	200	
in percent	501	510		303	303		510	233		500	233	
HWTS use	64.4	85.9	21.5	60.7	69.3	8.6	58.7	81.1	22.4	60.6	87.5	26.9
HWIS use frequent Boiling frequent use	40.2	62.9	7.7	35.4	51.8	16.4 7.9	4.5	<u>69.9</u> 9.6	<u>44.4</u> 5.1	35.1	25.9	38.5
Chlorination frequent use	29.9	37.3	7.4	31.1	31	-0.1	20.3	60.3	40	18.5	53.1	34.6
Filter frequent use	0.5	5.5 6.1	5.4	1.3	12.2	10.9	1	2.3	1.3	0	1.3	1.3
Filter use in numbers	2	19	17	4	41	37	3	7	4	0	5	5
N Show system used the most	194	311		253	303		317	302		312	305	
Filter visible and used	0.5	5.1	4.6	1.6	11.6	10	0.6	2	1.4	0	1	1
Filter visible and dry	1	0.3	-0.7	0	0.3	0.3	0.6	0	-0.6	0	0.7	0.7
PUR available	68.6	31.8	-36.8	55.7	33.7	-22	0.9	2.6	27.3	33	43.3	10.3
Filter with cloth visible	0	0	0	0	0	0	0	0.3	0.3	0	0	0
SODIS bottles in the sun	0	1.3	1.3	0	0.3	0.3	0	0.3	0.3	0	1.3	1.3
System not visible (boiling)	3.1	20.3	17.2	3.2	11.2	8	11.4	8.6	-2.8	17.3	23.6	6.3
Bottled water visible	18.6	31.2	12.6	0	0	0	0	0	-28.7	0	0	-23.1
HWTS system in HH incl. Boiling	81.4	68.8	-12.6	61.7	60.1	-1.6	43.5	72.2	28.7	50.3	73.4	23.1
HWTS system visible in HH	78.4	48.6	-29.8	58.5	48.8	-9.7	32.2	63.6	31.4	33	49.8	16.8
Filter visible and dry (Nrs)	2	10	-1	0	1	1	2	0	-2	0	2	2
Filter visible in HH total (Nrs)	3	17	14	4	36	32	4	6	2	0	5	5
in percent	301	311		305	303		310	302		308	305	
Know boiling	72.9	77.5	4.6	61	91.7	30.7	71.3	90.1	18.8	76.6	88.2	11.6
Know chlorination Know PUR	84 17.6	81.7	-2.3	88.5	88.4	-0.1	20.2	92.1 48.7	14.2 28.5	79.5	85.2 32.1	5.7
Know Filtration with Cloth	9.2	16.4	7.2	5.2	10.6	5.4	2.5	6.3	3.8	1.9	4.9	3
Know SODIS Know Filter	1	18.6	17.6	0	27.7	27.7 48.5	0	35.8	35.8 34.7	0.3	40.0	39.7 28
Does not know HWTS	4.6	4.8	0.2	8.5	3.0	-5.5	18.3	3.3	-15	11.5	2.3	-9.2
N in percent	306	-		305			317			312	-	
Information source Radio	94.1			92.8			83			75.3		
Information source Newspaper	8.2			4.9			3.5			1.6		
Information source Com-Meeting	18.3			19.7			3.5			43.3		
Information source Neighbours	13.4			23.6			30.6			42		
IN	300			305			317			312		
Information Health Center		8.7			15.5			6.6			8.2	
Information Promoter		24.4			20.5			30.8			83.0	
Information Shop Owner		4.2			5.3			1.0			0.3	
Information Com. Health Worker		14.5		-	33.3			0.3			0.7	
Infomation Demo in town		1.0			0.0			0.7			0.3	
Information TV/Radio/Newpaper		2.6			6.3			0.3			0.7	
					0.0			0.0			0.0	
Received promotion		61.7			62.4 57.8			91.1			90.8	
Promotion changed behaviour		56.6			56.1			79.8			87.9	
N naw water bas no impact	306	0.6	-5.6	305	13	-2.3	317	1.0	-6.3	312	2.6	-6.1
raw water causes Diarrhoea	40.8	62.4	21.6	49.5	45.9	-3.6	53.6	78.8	25.2	46.5	76.1	29.6
What would you purchase with												
Radio	In percent 5.6	3.9	-1.7	3.7	3.6	-0.1	3.2	1.7	-1.5	1.9	2.3	0.4
Chicken	12.6	13.5	0.9	6.7	10.2	3.5	7.3	4.6	-2.7	3.8	6.6	2.8
Mobile Phone Water Filter	10.2	25.4	1.1	9.8	23.4	-2.5	2.2	15.2	-0.2	1.3	3.3	2.0
Goat	20.4	7.4	-13.0	15.5	6.3	-9.2	20.3	18.5	-1.8	21.2	20.7	-0.5
Food	31.9	34.1	2.2	27.9	38.6	10.7	18	23.8	5.8	23.1	20	-3.1
School Fees	0.3	9.3	4.3	4.4	5.6	4.1	19.3	28.8	9.5	19.2	20.7	2.0 1.5
Start own business	0	1.3	1.3	0	2	2.0	2.2	2.3	0.1	1.3	4.3	3.0
Buy household goods	0	5.1	5.1 10.9	0.3	5.3	5.0 17.1	4.1	4 32.1	-0.1	6.4 18.6	23.6	-1.2
Willingness to pay for filters	306		-	305		-	316		_	312		-
0-5.4 USD	1A - BL	1A - Final	Δ 6.3	2A - BL	2A - Final	Δ 2 9	3A - BL	3A - Final	Δ15	4A - BL	4A - Final	-3.0
5.5-10.9 USD	31.3	29.6	-1.7	23.4	41.3	17.9	23.3	36.8	13.5	31.4	43.9	12.5
11-16.4 USD 16.5-21.9 USD	15.5 6 9	17 4 8	1.5 -2 1	13.2 10.5	12.5	-0.7	10.4	3.3	-7.1 -1 0	7.1	3.6	-3.5 -4 1

22-27.4 USD	1	0	-1.0	8.2	0	-8.2	0.6	0	-0.6	1	0	-1.0
27.5-32.9 USD	2.7	0.3	-2.4	2.3	0	-2.3	0.3	0	-0.3	0	0	0.0
33-38.4 USD	0.7	0	-0.7	1	0	-1.0	0.3	0.3	0.0	0	0	0.0
> 30.3 COD	303	311	0.0	305	303	0.0	0.6	302	-0.6	312	305	0.0
Baseline-Importance of treating	505	011		505	000		510	002		512	000	
drinking water	in numbers											
not important at all (0)	6	3	-3.0	0	0	0.0	11	1	-10.0	8	0	-8.0
not very important (1)	12	12	0.0	0	7	7.0	12	1	-11.0	10	4	-6.0
a bit important (3)	68	9	-5.0 10.0	23	33 94	10.0	29	85	-22.0	32 114	د 111	-29.0
very important (4)	203	209	6.0	206	169	-37.0	171	208	37.0	148	187	39.0
Rating of importance	3.49	3.54	0.1	3.60	3.40	-0.2	3.27	3.65	0.4	3.23	3.58	0.3
N	303	307		305	302		316	291		312	288	
Baseline-Percentage of	in porcont											
Almost nobody (0%)	16.6	0	-16.6	19.4	0	-19.4	31.3	0	-31.3	12.2	0	-12.2
some of them (25%)	54	23.1	-30.9	51.6	31.8	-19.8	41.5	6.2	-35.3	54.2	6.9	-47.3
half of them (50%)	19.2	45	25.8	15.5	34.1	18.6	15.2	32.6	17.4	27.9	44.1	16.2
most of them (75%)	10.3	23.5	13.2	13.2	18.5	5.3	12	15.8	3.8	5.8	13.2	7.4
aimost all (100%)	0 in numbers	8.5	8.5	0.3	15.6	15.3	0	45.4	45.4	0	35.8	35.8
Almost nobody (0%)	50	0	-50.0	59	0	-59.0	99	0	-99.0	38	0	-38.0
some of them (25%)	163	71	-92.0	157	96	-61.0	131	18	-113.0	169	20	-149.0
half of them (50%)	58	138	80.0	47	103	56.0	48	95	47.0	87	127	40.0
most of them (75%)	31	72	41.0	40	56	16.0	38	46	8.0	18	38	20.0
Average Percentag of N using	30.69	26 54.32	26.0 23.6	1 30.74	47 54.47	46.0 23.7	26.98	132 75.09	132.0 48.1	31.81	69.44	37.6
5	30.00	04.02	20.0	30114	94.41	10.7	20.30	10.00	7011	51101	50.14	5115
					x ² (1)=14.767						[]	
HWTS use vs Turbidity					p=0.000					2	ļļ	1
HWTS use ve Occupation					x ⁻ (1)=4.056					x ⁻ (7)=18.84		
HWTS use vs Occupation					p=0.044 $x^{2}(2)=14.000$					p=0.009		
HWTS use vs Education					p=0.001							
HWTS use vs Importance of	x ² (4)=72.13	x ² (4)=80.057		x ² (2)=33.200	x ² (3)=71.364		x ² (4)=57.361	x ² (3)=80.349		x ² (4)=55.488	x ² (3)=27.316	
treating drinking water	p=0.000	p=0.000		p=0.000	p=0.000		p=0.000	p=0.000		p=0.000	p=0.000	
HWTS use vs drinking raw water	x ² (6)=30.42	x ² (5)=19.842		x ² (6)=26.747	x ² (3)=16.563		x ² (6)=58.547	x ² (6)=20.828		x ² (5)=81.519	x ² (6)=26.945	
is good for health	p=0.000	p=0.001		p=0.000	p=0.001		p=0.000	p=0.002		p=0.000	p=0.000	
neighbours are using	x (3)=33.37 p=0.000	p=0.004		x (4) = 29.277 p=0.000	x (4) = 17.901 p=0.001		p=0.002	p=0.000		x(3)=22.943 p=0.000	p=0.000	
	F						$x^{2}(1)=14.823$	P		$x^{2}(1)=5.395$	P	
HWTS use vs info source radio							p=0.022			p=0.020		
	x ² (1)=6.55											
HWTS use vs info source TV	p=0.011			3								
HWTS use vs info source				x ² (1)=9.781						x ² (1)=4.214		
Commeet				p=0.001 $x^{2}(1)=6.629$			$x^{2}(1) - 11.32$			p=0.040 $x^{2}(1)=3.847$		
neighbours				p=0.010			p=0.001			p=0.050		
HWTS use vs HWTS promotion		x ² (1)=9.411			x ² (1)=8.014			x ² (1)=9.259			x ² (1)=4.446	
received		p=0.002			p=0.005			p=0.002			p=0.035	
HWTS use vs info through health		x ² (1)=4.872			x ² (1)=6.528							
center		p=0.027			p=0.011						ļ	
HWTS use vs info through CBO					X(1)=4.285 n=0.038							
HWTS use vs info through					p=0.000							
Promoter												
HWTS use vs info through shop												
UWIEF			-			-					$x^{2}(1) - 14.445$	
community health worker											p=0.000	
HWTS use vs info through												
community meeting												
Hw1S use vs info through												
HWTS use vs info through TV		1			$x^{2}(1) = 3.876$						┟─────┤	
radio, newspaper					p=0.049							
HWTS use vs info through other												
HWTS use vs found promotion		x ² (2)=12.488			x ² (2)=28.513			x ² (2)=10.716			$x^{2}(2)=26.550$	
neiptul HWTS use vs promotion changed		p=0.002 $x^{2}(2)=16.287$			p=0.002 $x^{2}(2)=31.677$			p=0.005 $x^{2}(2)=138.821$			p=0.000 $x^{2}(2)=71.712$	
behaviour		p=0.000			p=0.000			p=0.000			p=0.000	
	x ² (6)=18.16				x ² (7)=38.438		x ² (6)=14.823	x ² (6)=22.333		x ² (6)=18.784		
HWTS use vs monthly expenditure	p=0.006				p=0.000		p=0.022	p=0.001		p=0.005		
	x ² (6)=12.43			x ² (6)=15.930			x ² (6)=20.522			x ² (6)=20.649		
HWTS use vs monthly income	p=0.053	x ² (7)-16 000		p=0.014			p=0.002			p=0.002		
week		x (1) = 16.692 p=0.044					x (3 <i>)=23.</i> 641 p=0.000			x (3)=22.425 p=0.000		
	$x^{2}(4)=34.25$			$x^{2}(3) = 13.213$	$x^{2}(4) = 13.630$		$x^{2}(5)=22.443$	$x^{2}(4)=30.538$			$x^{2}(5)=17.503$	
HWTS use vs handwashing index	p=0.000			p=0.004	p=0.009		p=0.000	p=0.000			p=0.004	
					x ² (3)=9.899						x ² (3)=9.773	
HWTS use vs type of sanitation	L	7			p=0.019						p=0.044	
Frequent use chlorination vs		x ⁻ (5)=14.273								x ⁻ (3)=31.222	$x^{-}(2)=6.324$	
Frequent use filter vs willingness	x ² (6)=19.26	$\mu = 0.014$ $\chi^{2}(4) = 15.513$			x ² (3)=13 854		$x^{2}(7) = 114 \ 401$	x ² (4)=78 580		μ=υ.υυυ	p=0.042 $x^{2}(3)=8.120$	
to pay for filter	p=0.004	p=0.004			p=0.003		p=0.000	p=0.000			p=0.044	

			x ² (1)=14.25					x ² (1)=18.4	
Frequent HWTS use vs Turbidity	ns	ns	p=0.000		ns		ns	p=0.000	
FrequentHWTS use vs	x ² (7)=14.25		x ² (7)=15.95				x ² (7)=15.72		
Occupation	p=0.008	ns	p=0.026		ns		p=0.028		
		x ² (2)=7.4		x ² (2)=14.17		x ² (2)=5.34			
Frequent HWTS use vs Education	ns	p=0.025	ns	p=0.001		p=0.069			
Frequent HWTS use vs	200 00 00	200 00 00	2/22 22 27	2/22 22 22	2/22 10 20	200 00 00	200 00 000	2.00	
Importance of treating drinking	x²(4)=68.62	x²(4)=29.03	x ² (2)=32.07	x²(3)=39.65	x ² (3)=19.66	x ² (4)=90.49	x²(4)=25.665	x ² (2)=45.911	
water	p=0.008	p=0.000	p=0.000	p=0.000	p=0.001	p=0.000	p=0.000	p=0.000	
Frequent HWTS use vs drinking					x ⁻ (1)=8.5		x ⁻ (1)=4.5	x ⁻ (1)=5.5	
raw water has no impact	ns	ns	 ns		p=0.004	ns	p=0.034	p=0.019	
Frequent HVVIS use vs drinking	x (1)=11.65	X (1)=6.61							
	$\mu^{2}(2) = 25.50$	p=0.010	115 x ² (4) 45 04	$\frac{115}{1}$	$\frac{115}{\sqrt{2}}$	$rs^{2}(2) = 64.02$	$\frac{115}{2}$	115 $y^2(2)$ 40.74	
poighbours are using	x(3)=35.56	x (3) = 33.35	x (4) = 15.21	x (4) = 29.32	x (3) = 27.01	x (3)=04.23	x (3) = 20.21	x (3) = 42.71	
Frequent IM/TS use ve inte source	p=0.000	p=0.000	p=0.004	p=0.000	p=0.000	p=0.000	p=0.000	p=0.000	
radio	20		20		X(1)=0.4		x(1)=7.34		
Frequent HW/TS use ve info	$x^{2}(1) = 2.04$		$\frac{115}{x^2(1)-6}$ 402		p=0.011 $y^{2}(1)=5.072$		p=0.000		
source TV	x(1)=3.04		x(1)=0.492		x(1)=5.072				
Frequent HWTS use vs info	$x^{2}(1) = 24.00$		$y^2(1) = 18.41$		$y^{2}(1) = 18.55$		$x^{2}(1) = 16.74$		
source ComMeet	x(1) = 24.55		x(1) = 10.41		x(1) = 10.00		x(1) = 10.74		
Frequent HWTS use vs info	p=0.000		$y^{2}(1) = 12.411$		$y^{2}(1) = 16.14$		$y^{2}(1) = 15.34$		
source neighbours	ne		x(1) = 12.411		x(1) = 10.14		n = 0.000		
Frequent HWTS use vs HWTS	113	$x^{2}(1) = 6.13$	p=0.000	$x^{2}(1) = 9.621$	p=0.000	$x^{2}(1) = 6.67$	p=0.000	$x^{2}(1) = 16.54$	
promotion received		p=0.013		n=0.002		n=0.010		p=0.000	
Frequent HWTS use vs info		p=0.010		p=0.002		p=0.010		p=0.000	
through health center		ns		ns		ns		ns	
Frequent HWTS use vs info									
through CBO		ns		ns		ns		ns	
Frequent HWTS use vs info		x ² (1)=5.02							
through Promoter		p=0.025		ns		ns		ns	
Frequent HWTS use vs info									
through shop owner		ns		ns		ns		ns	
Frequent HWTS use vs info				x ² (1)=3.5				x ² (1)=5.61	
through community health worker		ns		p=0.062		ns		p=0.018	
Frequent HWTS use vs info				x ² (1)=7.64					
through community meeting		ns		p=0.006		ns		ns	
Frequent HWTS use vs info									
through demonstration in town		ns		ns		ns		ns	
Frequent HWTS use vs into									
through 1V, radio, newspaper		ns		ns		ns		ns	
through other		20		20		20		20	
Frequent HWTS use vs found		$x^{2}(2) = 7.07$		$x^{2}(2) = 21.58$		$x^{2}(2) = 7.14$		$x^{2}(2) = 14.48$	
promotion boloful		x(2)=7.07		x(2)=21.50		x(2)=7.14		x(2) = 14.40	
Frequent HWTS use vs promotion		$x^{2}(2) = 8.62$		$y^{2}(2) = 21.63$		$y^{2}(2) = 0.020$		$x^{2}(2) = 33.76$	
changed behaviour		n = 0.013		n = 0.000		n = 0.000		n = 0.000	
Frequent HWTS use vs monthly		p=0.010	$x^{2}(6) - 24.69$	$x^{2}(6) = 22.23$		$x^{2}(6) - 24.993$		$x^{2}(7) = 35.49$	
expenditure	ns	ns	p=0.000	n=0.002	ns	p=0.000	ns	p=0.000	
Frequent HWTS use vs monthly	110	110	p=0.000	p-01002	110	p=01000	110	p=0.000	
income	ns	ns	ns	ns	ns	ns	ns	ns	
Frequent HWTS use vs money	x ² (5)=18.95		x ² (5)=26.48	x ² (6)=21.2	1	x ² (4)=9.96			
available per week	p=0.002	ns	p=0.000	p=0.002	ns	p=0.041	ns	ns	
Frequent HWTS use vs		x ² (4)=13.46	$x^{2}(6)=24.69$	x ² (4)=13.29		$x^{2}(4)=50.67$		x ² (5)=25.96	
handwashing index		p=0.009	p=0.000	p=0.010		p=0.000		p=0.000	
Frequent HWTS use vs type of				x ² (3)=17.24		x ² (3)=17.09			
sanitation	ns	ns	ns	p=0.001	ns	p=0.002	ns	ns	
Freqent HWTS use vs willingness	x ² (6)=18.33		Ī		$x^{2}(7)=50.50$	x ² (4)=31.25	x ² (4)=22.94	x ² (4)=16.671	
to pay for filter	p=0.005	ns	ns	ns	p=0.000	p=0.000	p=0.000	p=0.001	

Analysis Bolivia, comparing different areas A = with promotion, B= without promotion 1= Women group Valle Hermoso, 2= FS Promoter Villa Granado, 3= Health centre Arbieto, 4= entrepreneurs Villa Tunar

Area	1A - BL	1A - Final	Δ	2A - BL	2A - Final	Δ	3A - BL	3A - Final	Δ	4A - BL	4A - Final	Δ
N Occupation	292	303	^	311	320	٨	317 24 Pl	314 24 Einel	^	442	319 44 Einel	•
None	1A-DL 0.3	IA - FINAI	Δ	2A-BL 0.6	ZA - FINAI	Δ	3A - DL	SA - FINAI	Δ	4A - DL 0.7	4A - Fillai	Δ
Housewife	30.5			24.4			27.4			8.1		
Student	10.6			7.1			7.9			4.8		
Retired	1.7			11.9			1.3			1.4		
Agricultural	0.3			0			1.9			11.3		I
Self employed	37.3			36.3			55.5			40.7		
Other	11			11.9			5			28.1		
N	292	303		317	320		315	314		446	319	
Money available weekly	1A - BL	1A - Final	1-mean	2A - BL	2A - Final	2-mean	3A - BL	3A - Final	3-mean	4A - BL	4A - Final	4-mean
14.2-28.2 USD	37	19.8	28.4	7.9	19.3	13.6	57.3	37.7	47.5	55.6	12.8	34.2
28.3-42.8 USD	31.8	33.8	32.8	23.7	47.8	35.8	29.4	34.5	32.0	28.3	26.3	27.3
42.9-56.5 USD	19.5	24.8	22.2	34.1	20.3	27.2	7.7	24.2	16.0	7.6	23.7	15.7
20.8-84 9 USD	0.8	0.3	7.6	18	3.3	77	3.5	3.5	3.5	3.1	5.4	10.4
> 85 USD	2.7	0	1 1	4 1	4.3	4.2	0.7	0	0.7	13	14.1	7.7
N	293	303		318	320		317	314	011	449	319	
HWTS use	98.6	99	0.4	95.9	99.1	3.2	74.1	92	17.9	93.9	100	6.1
HWTS use frequent	93.9	95.7	1.8	91.8	97.5	5.7	52.1	83.4	31.3	86.6	92.2	5.6
Boiling frequent use	80.2	79.9	-0.3	80.8	89.7	8.9	45.1	76.4	31.3	70.4	85.3	14.9
Chlorination frequent use	0.3	0.2	-0.1	0.6	4.1	3.5	0.3	1.9	1.6	0.2	7.5	7.5
Filter frequent use	0.7	4.0	3.9	0	1.3	1.9	03	0.3	-0.3	0.2	2.0	2.0
SODIS frequent use	3.1	14.5	11.4	0	2.2	2.2	1.6	8.9	7.3	0.4	70.8	70.4
Bottled water frequent use	21.2	39.3	18.1	17.6	28.4	10.8	7.6	12.1	4.5	16.9	21.9	5
Filter use in percent	0.7	4.7	4	5.3	6.9	1.6	0	0.3	0.3	0.4	2.8	2.4
Filter use in numbers	2	14	12	17	22	5	0	1	1	2	9	7
N	291	303		310	320		314	314		446	319	
Show system used the most	0	12	1.2	3.8	5.0	2.1	0.6	83	77	1.2	16.3	15
Filter visible and drv	0	4.2	4.2	3.8	0.3	0.3	0.0	0.3	1.1	1.3	13	11
Chlorination product available	0	0	0	0	0.0	0.0	0	0.3	0.3	0.2	2	2
Filter with cloth visible	0	0	0	0	0	0	0.3	0.3	0	1.6	0.3	-1.3
SODIS bottles in the sun	1.4	1.1	-0.3	0.3	0.7	0.4	0.3	11.8	11.5	1.6	7.6	6
SODIS bottles in the house	1	1.1	0.1	0	0	0	0.9	3.8	2.9	0.9	1	0.1
System not visible (boiling)	80.2	48.8	-31.4	80.8	79.1	-1.7	64	56.4	-7.6	59.2	57.5	-1.7
Bottled water visible	15.8	29.5	13.7	12.3	12.1	-0.2	8.5	11.4	-16.7	13.2	14	-8
Filter visible and used (Nrs)	0	13.4	13.4	12	18	6	24.3	24	-10.7	6	49	-13.2
Filter visible and dry (Nrs)	0	0	0	0	1	1	0	0	0	1	4	3
Filter visible in HH total	0	12	12	12	19	7	2	24	22	7	53	46
	04.5	04.7	0.0	04.4	00.0	40.4	70.0	07.0	47	70.0	00.0	00
Know bolling	91.5	94.7	-48.6	81.4	93.8	12.4	70.3	87.3	17	70.6	90.6	20
Know Filtration with cloth	12	10.6	-40.0	0.3	12.5	12.5	1.9	1.9	0	2.2	4.1	2.1
Know SODIS	28.7	42.6	13.9	4.7	25.6	20.9	4.7	16.6	11.9	4	29.2	25.2
Know Filter	3.1	21.1	18	6.3	32.5	26.2	0.6	8.9	8.3	7.1	4.1	-3
Know Bottled water	30	46.5	16.5	21.7	35	13.3	8.5	16.6	8.1	22	39.8	17.8
Does not know HWTS	5.8	0	-5.8	10.7	0.9	-9.8	26.2	8.3	-17.9	4.7	0.3	-4.4
N	293			318			317	-		449		
Information source Radio	67.2			66.4			58.7			33		
Information source Newspaper	23.2			48.7			79			11.1		
Information source TV	96.2			94.3			81.7			81.5		
Information source Community mee	7.2			17.6			0.9			6		
Information source Neighbours	16.4			10.7			3.3			1.8		
Information source Internet	7.5			16.7			0			1.8		
Information Health Center		1			16			10.5			25	
Information CBO		51.5			5.6			0.6			2.5	
Information Promoter		16.8			63			1			98.4	
Information Shop Owner		0			0			0			0.3	
Information Health Agent		1			0.3			0			0.6	
Info Demo in community		0			1.3			0			0.6	
Into IV radio newspaper		0.3			5.3			0			0	
Into through other sources		1.7			0.6			3.8			0	
Necerved promotion		212			216			49			219	
Did find promotion helpful		83.5			78.7			89.9			87.8	
Promotion changed behaviour		69.3			53.2			77.6			85	
N	293	303		318	320		317	314		449	319	
Impact raw water - none	6.1	5.3	-0.8	13.5	0.6	-12.9	27.8	18.5	-9.3	0.9	2.2	1.3
Impact raw water - Diarrhoea	62.5	67.3	4.8	39.6	57.2	17.6	34.1	61.8	27.7	61.9	75.2	13.3
Bs - N	201			316			310			111		
Radio	291	0.7	0.4	0.6	0.6	0	2.3	15.6	13.3	0.9	8.5	7.6
Chicken	0.0	1.3	1.3	0.3	0.3	0	2.3	8.3	6	1.4	10.7	9.3
Mobile phone	0.3	2.6	2.3	0.3	3.4	3.1	2.6	5.1	2.5	2.9	4.1	1.2
Water filter	4.1	9.2	5.1	12	4.4	-7.6	2.9	6.4	3.5	4.3	27	22.7
Food	62.2	32	-30.2	58.9	53.1	-5.8	69.7	33.1	-36.6	10.4	9.7	-0.7
Cloth School foos	7.2	11.9	4.7	7.3	9.7	2.4	8.4	13.4	5	17.3	8.8	-8.5
Start own business	0.2	4.b 1	-1.0	0.6	0.3	-0.3	0.1	5.7 20	4.4	19.0	1.0 2.8	-18
Invest money	17.9	15.8	-2.1	15.8	6.3	-9.5	7.1	3.2	-3.9	17,3	21	3.7
Household goods	0.7	17.8	17.1	3.8	21.6	17.8	2.9	6.4	3.5	24.3	5	-19.3
N	289			315			306			444		

Willigness to pay - water filter	1A - BL	1A - Final	Δ	2A - BL	2A - Final	Δ	3A - BL	3A - Final	Δ	4A - BL	4A - Final	Δ
0-5.7 USD	28.4	57.1	28.7	8.6	36.3	27.7	48.7	36.9	-11.8	11.9	17.2	5.3
5.8-9.9 USD	22.8	13.2	-9.6	14.3	16.3	-8.4	17.3	28.3	-1.1	17.1	22.6	5.5
14.3-18.4 USD	10	5.6	-4.4	15.2	18.4	3.2	11.8	10.3	-1.1	39.4	13.5	-25.9
18.5-22.7 USD	8.3	3.3	-5	17.8	9.7	-8.1	3.3	3.5	0.2	8.8	3.4	-5.4
22.8-26.9 USD	4.5	2.3	-2.2	12.1	4.4	-7.7	0.3	3.2	2.9	7	5.3	-1.7
27.0-31.2 USD	3.5	3.3	-0.2	12.7	1.9	-10.8	0.7	0.3	-0.4	2.9	5	2.1
N N	292	303	0.0	316	320	2.2	316	314	0	447	319	0.0
Baseline-Importance of treating												
drinking water	in numbers	in numbers						40	10			
not important at all (0)	0	2		1	0	-1	13	46	46	1	4	-2
does not matter (2)	4	3	-1	3	11	8	34	4	-30	8	3	-5
a bit important (3)	216	238	22	226	241	15	255	219	-36	345	223	-122
very important (4)	71	60	-11	81	66	-15	14	41	27	91	89	-2
Nating of importance	285	303	-0.05	3.21	320	-0.05	306	314	-0.20	443	3.23	0.06
Baseline-Percentage of neighbours	200									110		
using HWTS	in percent	in percent										
Almost hobody (0%)	21.1	29.7	8.6	19.4	43.4	24	43.8	36.3	-7.5	14.7	11.6	-3.1
half of them (50%)	17.5	11.6	-5.9	15.8	4.7	-11.1	20.9	6.1	3.5	16.3	35.1	18.8
most of them (75%)	11.2	13.5	2.3	21.4	12.5	-8.9	11.4	9.2	-2.2	15.8	5.3	-10.5
almost all (100%)	10.9	1.7	-9.2	31.3	10.9	-20.4	21.2	1.3	-19.9	2.3	0.9	-1.4
Almost pobody (0%)	in numbers	in numbers	30	50	130	80	134	114	-20	65	37	-28
some of them (25%)	112	132	20	33	91	54	64	148	-20	226	150	-20
half of them (50%)	50	35	-15	48	15	-33	8	19	11	72	112	40
most of them (75%)	32	41	9	65	40	-25	35	29	-6	70	17	-53
Average Percentag of N using	31	5 28 47	-26	95 58 22	35	-60	65	23.01	-61	34.00	34.25	-7
Average recommand of M doming	51.09	20.47	-3.43	50.22	23.11	-20.40	$x^{2}(1)=55.054$	25.01	-15.55	54.55	34.23	-0.74
HWTS use vs Turbidity	ns	ns		ns	ns		p=0.000	ns		ns		
HWTS use vs Education								x ² =9.997			x ² =36.932	
Interviewee		ns			ns			p=0.007			p=0.000	
HWTS use vs Importance treating		x ² =32.688			x ² =8.548		$x^{2}(3)=6.502$	x ² =29.782		x ² (4)=41.199	x ² =196.932	
water	ns	p=0.000		ns	p=0.036		p=0.090 $x^{2}(4)=88.484$	p=0.000 $x^2-10.371$		p=0.000 $x^{2}(4)=25.077$	p=0.000	
HWTS use vs Neighbours	ns	ns		ns	ns		p=0.000	p=0.001		p=0.000	p = 0.000	
HWTS use vs HWTS promotion								x ² (1)=5.023			$x^{2}(1)=26.055$	
received		ns			ns			p=0.025			p=0.000	
HWTS use vs info through health								x ² (1)=3.190				
center		ns			ns			p=0.075			ns	
HWTS use vs info through CBO		ns			ns			ns			x (1)=3.131 p=0.077	
HWTS use vs info through					110						$x^{2}(1)=15.174$	
Promoter		ns			ns			ns			p=0.000	
HWTS use vs info through shop												
owner HWTS use vs info through		ns			ns			ns			ns	
community health worker		ns			ns			ns			ns	
HWTS use vs info through												
community meeting		ns			ns			ns			ns	
Hvv IS use vs into through demonstration in town		ns			ns			ns			ns	
HWTS use vs info through TV,		10			110			110			110	
radio, newspaper		ns			ns			ns			ns	
HWTS use vs info through other		ns			ns			ns			ns	
		297			$3^{1}3$ $y^{2}(1)=3.712$			309			834	
helpful		ns			p=0.054			ns			ns	
HWTS use vs promotion changed		x ² (1)=4.566						-			x ² (1)=7.907	
behaviour		p=0.033			ns			ns			p=0.005	
HWTS use vs consumption of raw		x ² =22.828						x ² =25.403			x ² =139.168	7
water has no impact HWTS use vs consumption of row	ris	p=0.000	<u> </u>	IIS	115		11S $x^{2}(1) = 5.840$	p=0.000		IIS	p=0.000	<u> </u>
water causes diarrhoea	ns			ns			p=0.016			ns		
							x ² =(6)=21.956	x ² =22.409		x ² (7)=52.866	x ² =75.492	
HWTS use vs monthly expenditure	ns	ns		ns	ns		p=0.001	p=0.000		p=0.000	p=0.000	
	x ² (7)=13.826			$x^{2}(7)=25.878$			$x^{2}(6)=25.255$	x ² =19.505		x ² (7)=64.120	x ² =121.930	
Hvv IS use vs montnly income	p=0.054	ns		p=0.001 $x^{2}(6)=25.875$	ns		p=0.002 $x^{2}(6)=13.749$	p=0.001 $y^2=16.877$		p=0.000 $x^{2}(6)=32.111$	p=0.000	
HWTS use vs weekly available	ns	ns		p=0.000	ns		p=0.033	p=0.002		p=0.000	p=0.000	
HWTS use vs willingness to pay -				x ² (7)=14.063			x ² (6)=40.463	x ² =35.683		$x^{2}(7)=32.340$	x ² =51.705	
water filter	ns	ns		p=0.050	ns		p=0.000	p=0.000		p=0.000	p=0.000	
		x ⁻ (2)=6.254		x ⁻ (7)=7.211	20			20			x ⁻ (3)=51.531	
nwis use vs type of sanitation	ns	µ=0.044		p=0.027	115	l	ns	115	l	ns	p=0.000	L
Filter visible and used vs		$x^{2}(7) = 77.382$			$x^{2}(7) = 38.254$			$x^{2}(6) = 22.985$			$x^{2}(7) = 46.728$	
willingness to pay for filter		p=0.000			p=0.000			p=0.001			p=0.000	
Filter visible and used vs								x ² (4)=88.776				
importance of treating water		ns			ns			p=0.000			ns	
Filter visible and used vs monthly		x²(4)=15.118						x ² (3)=10.172			x ² (6)=18.733	
Filter visible and used ve HWTS		p=0.004 $x^{2}(1)=5.147$			ns			p=0.017			p=0.005	
promotion received		p=0.023			ns			ns			ns	
Filter visible and used vs info								x ² (1)=3.145				
through health center		ns			ns			p=0.076			ns	
Filter visible and used vs info					x ² (1)=4.044			x ² (1)=4.598				
through CBO		ns			p=0.044			p=0.032			ns	

Filter visible and used vs info	x ² (1)=29.404		x ² (1)=6.306					
through Promoter	p=0.000		p=0.012		ns		ns	
Filter visible and used vs info								
through shop owner	ns		ns		ns		ns	
Filter visible and used vs info								
through community health worker	ns		ns		ns		ns	
Filter visible and used vs info								
through community meeting	ns		ns		ns		ns	
Filter visible and used vs info								
through demonstration in town	ns		ns		ns		ns	
Filter visible and used use vs info								
through TV, radio, newspaper	ns		ns		ns		ns	
Filter visible and used use vs info								
through other	ns		ns		ns		ns	

Analysis Baseline Bolivia Intervention/Control A = with promotion, B= without promotion 1= Women group Valle Hermoso, 2= FS Promoter Villa Granado, 3= Health centre Arbieto, 4= entrepreneurs Villa Tunari

Area	1A	1B	2A	2B	3A	3B	4A	All Areas
Ν	293	158	318	139	317	143	449	1817
HWTS use	98.6%	100.0%	95.9%	97.1%	74.1%	69.9%	93.9%	90.3%
HWTS use frequent	93.9%	88.0%	91.8%	94.2%	52.1%	67.1%	86.6%	81.8%
Boiling frequent use	80.2%	69.0%	80.8%	84.2%	45.1%	54.5%	70.4%	69.1%
Chlorination frequent use	0.3%	0.0%	0.6%	0.7%	0.3%	0.0%	0.0%	0.3%
Filter frequent use	0.7%	0.0%	5.0%	2.2%	0.0%	0.0%	0.2%	1.2%
Filtration with a cloth frequent use	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.2%	0.1%
SODIS frequent use	3.1%	3.8%	0.0%	2.2%	1.6%	1.4%	0.4%	1.5%
Bottled water frequent use	21.2%	28.5%	17.6%	25.2%	7.6%	18.9%	16.9%	17.9%
Know boiling	91.50%	93.00%	81.40%	72.70%	70.30%	82.50%	70.60%	78.9%
Know chlorination	7.2%	10.1%	6.3%	10.1%	4.4%	1.4%	2.2%	5.3%
Know Filtration with cloth	1.0%	3.8%	0.0%	0.7%	1.9%	1.4%	2.0%	1.5%
Know SODIS	28.7%	27.8%	4.7%	13.7%	4.7%	2.8%	4.0%	11.0%
Know Filter	3.1%	3.2%	6.3%	5.8%	0.6%	0.0%	7.1%	4.2%
Know Water Bottles	30.0%	25.3%	21.7%	25.2%	8.5%	21.7%	22.0%	21.4%
Does not know HWTS	5.8%	1.9%	10.7%	18.0%	26.2%	9.1%	4.7%	10.8%
N	293	158	318	139	317	143	449	1817
Water is turbid	3.8%	18.3%	24.8%	13.2%	11.7%	12.6%	2.7%	11.2%
Source Borehole	0.7%	0.0%	0.6%	0.7%	0.0%	0.0%	0.4%	0.4%
Source Shallow well	6.1%	0.0%	7.5%	2.9%	1.6%	1.4%	0.2%	0.3%
Source Piped	13.0%	43.0%	48.7%	86.3%	0.0%	0.0%	96.0%	44.7%
Source River, Open well	0.0%	0.0%	0.0%	0.0%	1.6%	0.7%	0.4%	0.4%
Source Bottled water	16.4%	23.4%	0.3%	0.0%	5.0%	7.0%	1.6%	6.5%
Source Water Trucking	73.0%	84.8%	0.0%	0.0%	96.8%	97.9%	0.2%	43.8%
Source Rain Water	14.7%	49.7%	0.6%	0.0%	1.3%	0.7%	0.0%	7.0%
Source Spring	0.3%	0.0%	0.0%	0.0%	1.3%	4.9%	0.2%	0.7%
Source Water tank	17.4%	5.7%	49.7%	10.1%	0.0%	0.0%	0.9%	13.0%
N	293	158	318	139	317	143	449	
Information source Radio	67.2%	51.3%	66.4%	77.0%	58.7%	58.7%	33.0%	55.8%
Information source Newspaper	23.2%	8.9%	48.7%	54.0%	7.9%	4.2%	11.1%	21.6%
Information source TV	96.2%	94.3%	94.3%	95.7%	81.7%	83.2%	81.5%	88.5%
Information source Community mee	7.2%	10.1%	17.6%	9.4%	0.9%	2.1%	6.0%	7.6%
Information source Neighbours	16.4%	24.1%	10.7%	4.3%	3.2%	6.3%	1.8%	8.4%
Information source Internet	7.5%	5.7%	16.7%	20.1%	0.0%	0.0%	1.8%	6.6%
total N	290	157	314	138	312	143	442	
Sanitation - pit latrine	41.7%	31.2%	1.0%	1.4%	23.4%	10.5%	3.4%	15.5%
Sanitation - flushed toilet	56.6%	64.3%	98.7%	97.8%	3.8%	0.7%	95.5%	63.8%
Sanitation - using bushes	1.4%	4.5%	0.0%	0.7%	72.8%	88.7%	0.0%	20.3%
Sanitation - public toilets	0.3%	0.0%	0.3%	0.0%	0.0%	0.7%	1.1%	0.4%
N	293	158	318	139	317	143	449	
Impact raw water - none	6.1%	0.6%	13.5%	5.0%	27.8%	30.1%	0.9%	11.2%
Impact raw water - Typhoid	3.4%	8.2%	4.4%	2.9%	0.3%	0.7%	7.1%	4.1%
Impact raw water - Diarrhoea	62.5%	93.7%	39.6%	39.6%	34.1%	37.8%	61.9%	52.4%
Impact raw water - Malaria/Dengue	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	4.5%	1.2%
Impact raw water - Cholera	21.8%	39.2%	5.7%	8.6%	0.6%	0.7%	8.2%	10.8%
Impact raw water - Head ache	3.4%	7.0%	1.3%	0.7%	2.2%	0.0%	6.0%	3.3%
Impact raw water - Worms	40.3%	41.1%	29.9%	34.5%	17.0%	26.6%	13.4%	26.3%
Impact raw water - Diseases	31.4%	10.1%	35.2%	38.1%	28.4%	23.1%	22.7%	27.4%
Impact raw water - Amoeba	19.5%	31.0%	15.7%	25.2%	0.6%	2.1%	7.3%	12.6%
Impact raw water - Skin diseases	8.5%	7.0%	3.8%	7.2%	0.6%	0.7%	0.7%	3.5%
Impact raw water - Stomach pain	54.3%	81.0%	31.4%	48.2%	41.0%	40.6%	26.7%	41.9%
N	293	158	318	139	317	143	449	
Washing hands - never	0.3%	0.0%	0.0%	0.0%	4.1%	2.1%	0.0%	0.9%
Washing hands - before preparing a	51.3%	75.3%	39.3%	38.1%	42.9%	53.8%	10.5%	38.9%
Washing hands - after toilet	61.1%	88.0%	40.9%	42.4%	33.8%	31.5%	18.5%	40.8%
Washing hands - before eating	49.1%	84.8%	44.0%	50.4%	69.7%	78.3%	21.8%	50.6%
Washing hands - after eating	15.7%	46.2%	21.1%	39.6%	16.4%	18.9%	4.7%	18.8%
Washing hands - after changing bab	4.1%	10.1%	2.5%	2.2%	0.3%	0.7%	2.2%	2.8%
Washing hands - whenever they are	68.9%	28.5%	72.3%	74.1%	21.5%	15.4%	77.3%	56.0%
Washing hands - before breastfeedi	4.1%	5.1%	0.9%	0.0%	0.6%	2.1%	2.4%	2.1%
Where do you buy chlorine								
products - N								1796
at the market	65.5%	68.4%	50.5%	56.1%	86.1%	88.8%	74.8%	70%
at the village shop	33.1%	31.0%	37.8%	33.1%	10.6%	2.8%	21.3%	25%
in a big supermarket	0.7%	0.0%	10.5%	10.8%	0.0%	0.7%	1.1%	3%
in a pharmacy	0	0.6%	0.0%	0.0%	3.2%	7.0%	2.3%	2%
in a household goods shop	0.3%	0.0%	1.3%	0.0%	0.0%	0.0%	0.2%	0%
during a product exhibition	0.3%	0.0%	0.0%	0.0%	0.0%	0.7%	0.2%	0%
What would you purchase for 250								
Bs - N	291	156	316	139	310	141	444	1797

Radio	0.3%	0.0%	0.6%	1 4%	2.3%	1 4%	0.9%	1.0%
Chister	0.0%	0.0%	0.070	0.00/	2.070	1.40/	0.070	1.070
Chicken	0.0%	0.0%	0.3%	0.0%	2.3%	1.4%	1.4%	0.9%
Mobile phone	0.3%	0.0%	0.3%	5.0%	2.6%	1.4%	2.9%	1.8%
Water filter	4.1%	8.3%	12.0%	7.9%	2.9%	2.1%	4.3%	5.8%
Food	60.00/	E0 60/	EQ 00/	40.00/	60.70/	76.60/	10.40/	40.40/
FUUU	02.270	50.0%	50.976	40.2 /0	09.7 /0	10.070	10.4 /0	49.1%
Cloth	7.2%	8.3%	7.3%	12.2%	8.4%	2.1%	17.3%	10.0%
School fees	6.2%	7.7%	0.6%	1.4%	1.3%	2.1%	19.6%	7.1%
Start own business	1 00/	0.6%	0.20/	0.7%	0.6%	1 /0/	1 60/	0.09/
Start own business	1.0%	0.0%	0.3%	0.7%	0.0%	1.4%	1.0%	0.9%
Invest money	17.9%	17.9%	15.8%	21.6%	7.1%	9.2%	17.3%	15.1%
Household goods	0.7%	6.4%	3.8%	1 4%	2.9%	2.1%	24.3%	8.1%
	0.170	0.470	0.070	1.470	2.070	2.170	24.070	0.170
N	289	152	315	139	306	139	444	
Willigness to pay - water filter								
0-40 Bs	28.4%	30.3%	8.6%	14 4%	48 7%	43.2%	11.9%	25%
0-40 D3	20.470	00.070	0.070	07.00/	47.00/	40.270	11.570	2070
40-70 Bs	22.8%	23.0%	14.3%	27.3%	17.3%	26.6%	17.1%	20%
70-100 Bs	21.8%	17.1%	17.8%	20.9%	18.0%	17.3%	11.7%	17%
100 120 Po	10.0%	15 10/	15 20/	9 60/	11 00/	10.00/	20 /0/	100/
100-130 BS	10.078	IJ.170	10.270	0.070	11.070	10.078	59.470	1970
130-160 Bs	8.3%	5.9%	17.8%	10.1%	3.3%	0.7%	8.8%	9%
160-190 Bs	4.5%	3.3%	12.1%	7.9%	0.3%	0.7%	7.0%	6%
100 220 Be	2 E0/	E 20/	10 70/	7.00/	0.70/	0.70/	2.00/	E0/
190-220 BS	3.5%	5.3%	12.1%	7.9%	0.7%	0.7%	2.9%	5%
>220 Bs	0.7%	0.0%	1.6%	2.9%	0.0%	0.0%	1.1%	1%
	001	150	0.17	100		1.10	4.47	
N	291	158	317	139	306	142	447	
Picture game - value water filter								
Most important	2 10/	C 20/	E /0/	1 /0/	2 00/	2 10/	2 70/	
	3.1%	0.5%	0.4%	1.470	2.3%	2.170	2.170	
Second important	6.9%	3.2%	3.8%	5.0%	4.6%	2.8%	1.8%	
3rd important	5.5%	5.7%	5.4%	7.2%	4.6%	1.4%	3.6%	
4th important	0.20/	2 00/	2 00/	4 20/	C E0/	7 70/	E 60/	
4th Important	9.3%	3.0%	3.8%	4.3%	0.0%	1.1%	°0.c%	
5th important	8.6%	3.2%	5.0%	5.8%	5.6%	9.2%	6.3%	
6th important	10 3%	14 6%	9.5%	12 2%	9.2%	Q Q%	27 1%	
74b important	40.00/	40.70	3.570	12.270	0.270	0.070	45.000	
7th important	12.0%	12.7%	10.7%	15.1%	12.1%	9.2%	15.9%	
8th important	15.5%	12.7%	12.9%	18.0%	12.4%	12.0%	6.7%	
0th important	20 00/	20 00/	12 50/	20.0%	12 20/	15 90/	20 /0/	
eth important	20.9%	30.0%	43.3%	30.9%	42.2%	40.0%	30.4%	
					2(4) == 0=4	2(4) 0.004		
					x ² (1)=55.054	x ² (1)=6.361		
HWTS use vs Turbidity					p=0.000	n=0.012		
					p=0.000	p=0.012		
					x ² =5.1			
HWTS use vs Source Spring					n = 0.024			
The date value opining					p=0.02+		2	
							x ² =7.263	
HWTS use vs Source Piped water							n-0.007	
The date value of the mater							2	
							x ⁻ =6.046	
HWTS use vs River							n-0.014	
					2		p=0.014	
					x ² =5.880			
HWTS use vs Bottled water					p=0.015			
					2 50.040	2 40 000	2 0 1 0 7 7	
					x ⁻ =50.242	x ⁻ =19.839	x ² =24.077	
HWTS use vs Occuption					000.0=q	p=0.003	p=0.001	
						F 0.000	F	
HWIS use vs Gender								
HWTS use vs Importance treating			$x^2 = 19.299$	x ² =35.124		x ² =8.187	x^2 =66.856	
wator			n = 0.002	n = 0.000		n = 0.042	n = 0.000	
water			p=0.002	p=0.000		p=0.042	p=0.000	
HWTS use vs drinking untreated	x ² =9.648		x ² =32.827		x ² =38.716	x ² =15.404	x ² =41.729	
water how had	n = 0.047		n = 0.000		n = 0.000	n-0.000	n = 0.000	
water new bad	p=0.047		p=0.000		p=0.000	p=0.000	p=0.000	
					x ² =208.804	x ² =26.342	x ² =148.122	
HWTS use vs HWTS knowledge					n - 0.000	n = 0.000	n - 0.000	
			2 10 -0-		2 01000	2 05 11-	2 00 ===	
			x =13.796		x =91.483	x =25.112	x =30.752	
HWTS use vs Neighbours			p=0.017		p=0.000	p=0.000	p=0.000	
			x ² 44 070					
			x =11.278					
HWTS use vs sanitation			p=0.010					
HWTS use vs Information source								
Radio *								
HWTS use vs information source							v^2 -11 561	
							x =11.501	
Newspaper							p=0.001	
HWTS use vs information source							$x^2 - 4703$	
							x =4.100	
IV							p=0.030	
HWTS use vs information source								
community mactings *						1		
community meetings								
HWTS use vs information source							$x^2 = 12.407$	
neighbours						1	n-0.000	
neighbours							p=0.000	
HWTS use vs who buvs aood over			x ² =48.734		x ² =17.862	x ² =27.499	x ² =37.831	
50BS			n-0.000		n = 0.001	n=0.000	n=0.000	
			p=0.000		p=0.001	p=0.000	p=0.000	
HWTS use vs impact raw water -							x [∠] =12.757	
Typhoid							n=0.000	
		L	}		2		P-0.000	
HWTS use vs impact raw water -					x ² =5.849	1		
Diarrhoea					p=0.016			
					r-0.010	2 0		
HWIS use vs impact raw water -						x ⁻ =6.572		
Diseases						p=0.010		
						r 0.010		

neverp=0.030p=0.030HWTS use vs washing hands - before preparing a meal $x^2=5.679$ p=0.001 $x^2=26.381$ p=0.000 $x^2=0.003$ HWTS use vs washing hands - after toilet $x^2=0.017$ p=0.000 $p=0.000$ $p=0.003$ HWTS use vs washing hands - before eating $x^2=27.456$ p=0.000 $x^2=27.456$ p=0.000HWTS use vs washing hands - after eating $x^2=4.639$ p=0.001 $x^2=5.689$ p=0.001HWTS use vs washing hands - before prear ing $x^2=4.639$ p=0.031 $x^2=7.126$ p=0.000HWTS use vs washing hands - whenever they are dirty $x^2=4.639$ p=0.031 $x^2=7.126$ p=0.000HWTS use vs washing hands - where vs washing hands - where vs washing hands - before breast feeding $x^2=4.639$ p=0.031 $x^2=7.126$ p=0.000HWTS use vs washing hands - where vs washing hands - after exting $x^2=4.639$ p=0.031 $x^2=7.126$ p=0.000HWTS use vs washing hands - after changing baby diapers * $x^2=4.639$ p=0.014 $x^2=3.452$ p=0.000HWTS use vs washing hands - after changing baby diapers * $x^2=19.076$ p=0.014 $x^2=3.452$ p=0.000HWTS use vs monthly expenditure $x^2=13.765$ $x^2=12.05$ $x^2=38.294$ p=0.000HWTS use vs monthly income $x^2=13.765$ $x^2=32.294$ p=0.000
HWTS use vs washing hands - before preparing a meal $x^2=5.679$ $p=0.017$ $x^2=26.381$ $p=0.000$ $x^2=9.001$ $p=0.003$ HWTS use vs washing hands - after toilet $x^2=5.679$ $p=0.010$ $x^2=6.578$ $p=0.010$ $x^2=9.875$ $p=0.002$ HWTS use vs washing hands - before eating $x^2=13.103$ $p=0.000$ $x^2=27.456$ $p=0.000$ HWTS use vs washing hands - after eating $x^2=4.639$ $p=0.000$ $x^2=5.689$ $p=0.000$ HWTS use vs washing hands - whenever they are dirty $x^2=4.639$ $p=0.031$ $x^2=7.126$ $p=0.000$ HWTS use vs washing hands - after breast feeding $x^2=17.126$ $p=0.000$ $x^2=27.188$ $p=0.000$ HWTS use vs washing hands - whenever they are dirty $x^2=17.126$ $p=0.000$ $x^2=33.452$ $p=0.000$ HWTS use vs washing hands - after changing baby diapers * HWTS use vs monthly expenditure $x^2=13.765$ $p=0.014$ $x^2=17.131$ $p=0.000$ HWTS use vs monthly expenditure $x^2=13.765$ $p=0.032$ $x^2=21.205$ $x^2=38.294$
before preparing a meal $p=0.017$ $p=0.000$ $p=0.003$ HWTS use vs washing hands - after toilet $x^2=6.578$ $p=0.010$ $x^2=9.875$ $p=0.010$ $p=0.002$ HWTS use vs washing hands - before eating $x^2=27.456$ $p=0.000$ $x^2=27.456$ $p=0.000$ HWTS use vs washing hands - after eating $x^2=4.639$ $p=0.000$ $x^2=5.689$ $p=0.000$ HWTS use vs washing hands - whenever they are dirty $x^2=4.639$ $p=0.031$ $x^2=7.126$ $p=0.000$ HWTS use vs washing hands - after changing baby diapers * $x^2=4.639$ $p=0.001$ $x^2=7.126$ $p=0.000$ HWTS use vs washing hands - after changing baby diapers * $x^2=19.076$ $p=0.014$ $x^2=33.452$ $p=0.000$ HWTS use vs monthly expenditure $x^2=13.765$ $x^2=13.765$ $x^2=32.094$ $x^2=21.205$ $x^2=38.294$
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HWTS use vs monthly income $p=0.032$ $p=0.001$ $p=0.000$
x ² =13.188 x ² =15.558
HWTS use vs weekly available p=0.022 p=0.008
HWTS use vs willingness to pay - x ² =14.063 x ² =40.463 x ² =16.314 x ² =32.340
water filter p=0.050 p=0.000 p=0.012 p=0.000
HWTS use vs impact raw water -
Malaria/Dengue *
HWTS use vs impact raw water -
Cholera *
HWTS use vs impact raw water -
Head ache *
HWIS use vs impact raw water -
Worms
Amooba *
Allidebla
Skin diseases *
HWTS use vs impact raw water -
Stomach pain *

* Is not significant in any area

Analysis Final Data Bolivia, Intervention/Control A = with promotion, B= without promotion 1= Women group Valle Hermoso, 2= FS Promoter Villa Granado, 3= Health centre Arbieto, 4= entrepreneurs Villa Tunari

Area	1A	1B	2A	2B	3A	3B	4A	4B	All Areas
N	303	168	320	140	314	129	319	145	1838
HWTS use (D09_8)	99.0%	99.4%	99.1%	98.6%	92.0%	93.0%	100.0%	100.0%	97.7%
Reiling frequent (D09_8a)	95.7%	92.9%	97.5%	95.7%	83.4%	73.6%	92.2%	92.4%	91.2%
Chlorination frequent use	2.0%	0.0%	4 1%	2.1%	1 9%	03.0%	7.5%	2.8%	3.1%
Filtration with a cloth frequent use	1.0%	0.6%	1.3%	1.4%	0.0%	0.8%	1.9%	0.0%	0.9%
SODIS frequent use	14.5%	5.4%	2.2%	1.4%	8.9%	1.6%	70.8%	66.9%	22.6%
Bottled water frequent use	39.3%	29.2%	28.4%	26.4%	12.1%	13.2%	21.9%	12.4%	23.9%
Filter frequent use	4.6%	1.2%	6.9%	6.4%	0.3%	0.0%	2.8%	0.7%	3.2%
All that state to use a filter state that	t they use it freq	uently							
Filter use in percent	4.6%	1.2%	6.9%	6.4%	0.3%	0.0%	2.8%	0.7%	3.2%
Show system used the most	303	168	320	140	314	129	310	145	1838
Filter visible and used	4 2%	0.6%	5.9%	4 3%	8.3%	0.8%	16.3%	0.0%	6.3%
Filter visible and dry	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	1.3%	0.0%	0.3%
Chlorination product available	0.0%	0.0%	0.0%	0.7%	0.3%	0.8%	2.0%	1.4%	0.6%
Filter with cloth visible	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.3%	0.0%	0.1%
SODIS bottles in the sun	1.1%	1.2%	0.7%	1.4%	11.8%	6.5%	7.6%	3.6%	4.5%
SODIS bottles in the house	1.1%	1.2%	0.0%	0.0%	3.8%	3.2%	1.0%	0.0%	1.3%
System not visible (boiling)	48.8%	12.1%	79.1%	/1.4%	56.4%	59.7%	57.5%	86.4%	64.7%
No system available	29.5%	7.0%	2.1%	21.4%	7.6%	21.0%	14.0%	0.0%	15.7%
	13.470	1.570	2.070	0.770	1.070	21.070	0.070	0.078	0.470
Filter visble and used	12	1	18	6	24	1	49	0	111
Filter visible and dry numbers	0	0	1	0	0	0	4	0	5
Filters visible in HH (dry or used)	12	1	19	0	24	1	53	U	110
HWTS know	100.0%	93.5%	99.1%	95.0%	91.7%	88.4%	100.0%	100.0%	96.6%
Know boiling	94.7%	93.5%	93.8%	93.3%	87.3%	78.3%	90.6%	93.1%	91.1%
Know chlorination	23.4%	14.3%	39.1%	29.3%	13.4%	3.9%	18.5%	15.9%	21.2%
Know Filtration with cloth	10.6%	4.2%	12.5%	8.6%	1.9%	2.3%	4.1%	4.1%	6.5%
Know SODIS	42.6%	21.4%	25.6%	9.3%	16.6%	9.3%	29.2%	15.9%	23.9%
Know Filter	21.1%	5.4%	32.5%	17.9%	8.9%	0.8%	4.1%	6.2%	13.8%
Know Bottled water	46.5%	38.7%	35.0%	30.7%	16.6%	15.5%	39.8%	29.7%	32.8%
Does not know HWIS	0.0%	6.5%	0.9%	5.7%	8.3%	11.6%	0.3%	2.1%	3.6%
Water is turbid	2.6%	4.2%	35.6%	10.0%	13.1%	13.2%	19.1%	34.5%	17.00%
Source Borehole	2.0%	1.8%	18.1%	22.1%	1.9%	0.0%	2.5%	0.0%	6.1%
Source Shallow well	1.3%	1.8%	25.9%	1.4%	1.3%	0.0%	1.6%	1.4%	5.6%
Source Piped	41.6%	31.5%	60.9%	80.0%	2.9%	0.0%	96.2%	98.6%	51.4%
Source River, Open well	0.7%	0.0%	0.0%	0.7%	0.6%	2.3%	1.6%	2.8%	0.9%
Source Bottled water	9.6%	10.7%	7.5%	5.0%	23.6%	13.2%	2.8%	1.4%	9.8%
Source Water Trucking	65.3%	83.9%	0.0%	0.0%	92.7%	90.7%	0.6%	0.7%	40.8%
Source Rain Water	0.7%	0.0%	0.3%	0.0%	9.2%	18.0%	1.3%	1.4%	3.4%
Source Water tank	3.3%	1.8%	5.3%	0.0%	0.3%	0.0%	0.3%	2.0%	1.1/0
	0.070	1.070	0.070	0.070	0.070	0.070	0.070	0.070	1.770
Information Health Center	1.0%	0.0%	1.6%	1.4%	10.5%	1.6%	2.5%	0.7%	
Information CBO	51.5%	4.8%	5.6%	0.0%	0.6%	0.8%	2.5%	0.0%	
Information Promoter	16.8%	0.0%	63.1%	2.1%	1.0%	0.0%	98.4%	11.0%	
Information Shop Owner	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	0.3%	0.0%	
Information Health Agent	1.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.6%	0.0%	
Into Demo In community	0.0%	0.0%	1.3%	0.0%	0.0%	0.0%	0.6%	0.0%	
Info through other sources	1.7%	0.0%	0.6%	0.0%	3.8%	0.0%	0.0%	0.0%	
Received promotion	69.6%	4.8%	67.5%	6.4%	15.6%	3.1%	100.0%	11.0%	
N	212	8	216	9	49	4	219	17	
Did find promotion helpful	83.5%	87.5%	78.7%	100.0%	89.9%	75.0%	87.8%	100.0%	
Promotion changed behaviour	69.3%	75.0%	53.2%	88.9%	77.6%	50.0%	85.0%	100.0%	
N	303	168	320	140	314	129	319	145	1838
Sanitation - pit latrine	93.7%	88.7%	4.4%	0.0 69/	59.9%	36.4%	13.2%	6.9%	40.00%
Sanitation - Jushed tollet	4.3%	10.7%	95.6%	96.6%	1.3%	62.0%	00.2%	92.4%	40.40%
Sanitation - public toilets	0.0%	0.0%	0.0%	0.0%	0.6%	02.0%	0.3%	0.0%	0.30%
	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.170	0.0070
Impact raw water - None	5.3%	10.7%	0.6%	5.0%	18.5%	23.3%	2.2%	4.8%	7.90%
Impact raw water - Typhoid	13.9%	22.6%	6.9%	10.7%	1.0%	1.6%	40.1%	40.0%	16.80%
Impact raw water - Diarrhoea	67.3%	64.9%	57.2%	52.1%	61.8%	65.1%	75.2%	68.3%	64.50%
Impact raw water - Malaria/Dengue	0.3%	0.6%	3.8%	4.3%	0.3%	0.0%	14.7%	19.3%	5.20%
Impact raw water - Unolera	5.0%	14.3%	37.2%	35.0%	10.8%	3.1%	20.5%	59.3%	27.60%
Impact raw water - Worms	38.6%	36.3%	36.3%	3.0% 41.4%	4.0% 17.8%	18.6%	25.1%	27.6%	30.00%
Impact raw water - Diseases	24.1%	17.9%	27.8%	27.9%	8.3%	6.2%	10.7%	14.5%	17.40%
Impact raw water - Amoeba	10.9%	10.1%	16.6%	19.3%	1.0%	0.0%	8.2%	6.2%	9.10%
Impact raw water - Skin diseases	2.0%	2.4%	5.0%	3.6%	0.6%	0.0%	1.3%	5.5%	2.40%
Impact raw water - Stomach pain	32.0%	29.2%	38.8%	36.4%	34.4%	37.2%	22.9%	15.9%	31.20%
Washing hands - never	1.0%	0.0%	0.9%	0.7%	9.6%	2.3%	1.9%	1.4%	2.6%

Washing hands hafars									1
wasning nands - before preparing									
a meal	49.2%	41.7%	51.9%	56.4%	49.7%	29.5%	78.7%	69.0%	54.9%
Washing hands - after toilet	62.4%	58.9%	85.9%	84.3%	39.5%	38.0%	71.5%	77.2%	65.0%
Washing hands - before eating	78.2%	73.8%	76.6%	92.1%	47.1%	56.6%	73.0%	83.4%	71.3%
Washing hands - after eating	30.4%	28.0%	33.4%	39.3%	33.4%	30.2%	49.2%	65.5%	37.9%
Washing hands - after changing	00.170	20.070	00.170	00.070	00.170	00.270	10.270	00.070	01.070
	7.00/	4.00/	40.00/	E 00/	0.00/	2.00/	00.00/	20.20/	40 70/
baby diapers	7.9%	4.2%	10.0%	5.0%	9.2%	3.9%	26.6%	30.3%	12.7%
Washing hands - whenever they									
are dirty	45.2%	35.7%	38.8%	40.0%	22.6%	24.8%	33.2%	39.3%	35.0%
Washing hands - before									
breastfeeding	1.0%	1.2%	5.3%	4.3%	0.6%	0.0%	14 4%	23.4%	6.0%
N	1.070	1.270	0.070	4.070	0.070	0.070	14.470	20.470	0.070
IN IN									
Where did you buy Chlorine:									
Market	49.8%	44.6%	37.8%	37.1%	43.6%	24.0%	76.2%	73.8%	49.90%
NGO	0.3%	0.6%	0.0%	0.0%	1.0%	0.8%	2.2%	1.4%	0.80%
Pharmacy	1.3%	2 4%	2.8%	5.0%	0.3%	0.8%	0.3%	2.1%	1 60%
Llougehold Ware Chen	1.070	2.470	2.070	0.070	0.070	0.070	0.070	2.170	1.0070
Household ware Shop	0.00/	1.00/	0.50/	0 70/	1.00/	0.00/	0.00/	0 70/	
Water Klosk	2.3%	4.2%	2.5%	0.7%	1.3%	2.3%	0.6%	0.7%	1.80%
CBO door to door	1.3%	0.0%	2.5%	0.7%	0.0%	0.0%	0.6%	0.7%	0.90%
Supermarket	0.7%	0.6%	2.5%	9.3%	0.0%	0.0%	0.0%	0.0%	1.30%
Small shop	2.0%	1.2%	2.5%	6.4%	0.0%	0.0%	0.0%	1 4%	1 50%
MEI	0.0%	0.6%	0.0%	0.170	0.0%	0.0%	0.070	0.0%	0.200/
	0.0%	0.0%	0.9%	0.0%	0.0%	0.0%	0.3%	0.0%	0.30%
Did not buy any	44.6%	49.4%	58.1%	54.3%	54.8%	73.6%	23.2%	24.8%	46.60%
N									
Where did you buy your filter:									
Does not buy a filter	93 4%	98 8%	94 4%	93.6%	84 7%	97 7%	83.1%	00 3%	91 60%
Markot	4 00/	0.070	4 00/	0.070	44.00/	4 60/	40.00/	0.70/	51.0070 E E004
	1.0%	0.0%	1.9%	0.7%	14.3%	1.0%	13.0%	0.7%	5.50%
NGO	1.0%	0.6%	1.6%	1.4%	0.3%	0.0%	5.6%	0.0%	1.60%
Pharmacy	0.3%	0.0%	0.0%	0.0%	0.3%	0.0%	0.3%	0.0%	0.20%
Household Ware Shop									
Water Kiosk	በ	0.0%	0.6%	0.0%	0.6%	0 8%	1 0%	0.7%	0 70%
CPO dear to dear	4.20/	0.070	0.070	0.070	0.0%	0.070	0.60/	0.7%	4.400/
	4.3%	0.0%	0.3%	0.7%	0.0%	1.0%	0.6%	0.7%	1.10%
Supermarket	0.7%	0.0%	0.0%	1.4%	0.3%	0.0%	0.0%	0.0%	0.30%
Small shop	0.0%	0.0%	0.3%	0.0%	0.0%	0.8%	0.0%	0.0%	0.10%
MEL	0.0%	0.0%	0.6%	0.0%	0.0%	0.0%	0.3%	0.7%	0.20%
L do havo a filtor	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.170	0.2070
i uo nave a nitei									
N									
Where did you buy your filter:									
Did not buy a filter	283	166	302	131	266	126	265	144	1638
Markat	2	0	G	1	15	2	11	1	102
	5	0	0	1	40	2	44	1	102
NGO	3	-	5	2	1	0	18	0	30
Pharmacy	1	0	0	0	1	0	1	0	3
Water Kiosk	1	0	2	0	2	1	6	1	13
Water Kiosk CBO door to door	1	0	2	0	2	1	6	1	13
Water Kiosk CBO door to door	1	0	2	0	201	1	6	1	13 21
Water Kiosk CBO door to door Supermarket	1 13 2	0 1 0	2 1 0	0 1 2	2 0 1	1 2 0	6 2 0	1 1 0	13 21 5
Water Kiosk CBO door to door Supermarket Small shop	1 13 2 0	0 1 0 0	2 1 0 1	0 1 2 0	2 0 1 0	1 2 0 1	6 2 0 0	1 1 0 0	13 21 5 2
Water Kiosk CBO door to door Supermarket Small shop MFI	1 13 2 0 0	0 1 0 0 0	2 1 0 1 2	0 1 2 0 0	2 0 1 0 0	1 2 0 1 0	6 2 0 0 1	1 1 0 0 1	13 21 5 2 4
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated	1 13 2 0 0 23	0 1 0 0 0 2	2 1 0 1 2 17	0 1 2 0 0 6	2 0 1 0 0 50	1 2 0 1 0 6	6 2 0 0 1 72	1 1 0 0 1 4	13 21 5 2 4 180
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (drv or used)	1 13 2 0 0 0 23 12	0 1 0 0 0 2 1	2 1 0 1 2 17 19	0 1 2 0 0 6 6	2 0 1 0 0 50 24	1 2 0 1 0 6 1	6 2 0 0 1 1 72 53	1 1 0 0 1 1 4	13 21 5 2 4 180 116
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used)	1 13 2 0 0 0 23 12	0 1 0 0 2 2	2 1 0 1 2 17 19 22	0 1 2 0 0 6 6	2 0 1 0 0 50 24	1 2 0 1 0 6 1	6 2 0 0 1 1 72 53	1 1 0 0 1 4 0	13 21 5 2 4 180 116
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers	1 13 2 0 0 23 23 12 14	0 1 0 0 0 2 1 2 2	2 1 0 1 2 17 19 22	0 1 2 0 0 6 6 9 9	2 0 1 0 0 50 24 1	1 2 0 1 0 6 6 1 0	6 2 0 0 1 72 53 9	1 1 0 0 1 1 4 0 1	13 21 5 2 4 180 116 58
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers	1 13 2 0 0 23 23 12 14	0 1 0 0 2 1 2	2 1 0 1 2 17 19 22	0 1 2 0 0 6 6 6 9 9	2 0 1 0 0 50 24 1	1 2 0 1 0 6 6 1 0	6 2 0 0 1 1 72 53 9	1 1 0 0 1 4 0 1	13 21 5 2 2 4 180 116 58
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio	1 13 2 0 0 23 12 14 14 0.7%	0 1 0 0 2 1 2 1 2 0.6%	2 1 0 1 2 17 19 22 0.6%	0 1 2 0 0 6 6 6 9 9 0.0%	2 0 1 0 0 50 24 1 15.6%	1 2 0 1 0 6 6 1 0 0 3.9%	6 2 0 0 1 1 72 53 9 8.5%	1 1 0 0 1 1 4 0 0 1 1 8.3%	13 21 5 2 4 180 116 58 5.3%
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Chicken	1 13 2 0 0 23 12 14 	0 1 0 0 2 1 2 1 2 0.6% 0.6%	2 1 0 1 2 17 19 22 0.6% 0.3%	0 1 2 0 0 6 6 6 9 9 0.0% 0.0%	2 0 1 0 0 0 50 24 1 1 5.6% 8.3%	1 2 0 1 0 6 1 0 3.9% 10.1%	6 2 0 1 72 53 9 8.5% 10.7%	1 1 0 0 1 4 0 1 1 8.3% 26.2%	13 21 5 2 4 180 116 53% 5.3% 6.4%
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Chicken	1 13 2 0 0 23 12 14 14 0.7% 1.3%	0 1 0 0 2 1 2 0.6% 0.6%	2 1 0 2 17 19 22 0.6% 0.3%	0 1 2 0 0 6 6 6 9 9 0.0% 0.0%	2 0 1 0 50 24 1 15.6% 8.3%	1 2 0 1 6 6 1 0 3.9% 10.1%	6 2 0 0 1 72 53 9 9 8.5% 10.7%	1 1 0 0 1 4 0 1 8.3% 26.2%	13 21 5 2 2 4 180 116 58 5.3% 6.4%
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - mobile phone	1 13 2 0 0 23 12 14 0.7% 1.3%	0 1 0 0 2 1 2 0.6% 0.6%	2 1 0 1 2 17 19 22 0.6% 0.3%	0 1 2 0 0 6 6 6 6 6 9 9 0.0% 0.0% 0.0%	2 0 1 0 50 24 1 15.6% 8.3%	1 2 0 1 0 6 1 0 3.9% 10.1%	6 2 0 0 1 1 72 53 9 9 8.5% 10.7%	1 1 0 0 1 1 4 0 1 1 8.3% 26.2%	13 21 5 2 2 4 180 116 58 5.3% 6.4%
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - mobile phone	1 13 2 0 0 23 12 14 0.7% 1.3% 2.6%	0 1 0 0 2 1 2 0.6% 0.6% 0.6% 3.0%	2 1 0 1 2 17 19 22 0.6% 0.3% 0.3% 3.4%	0 1 2 0 0 6 6 6 9 9 0.0% 0.0% 0.0% 2.1%	2 0 1 0 0 50 24 1 15.6% 8.3% 5.1%	1 2 0 1 0 6 1 0 3.9% 10.1% 7.0%	6 2 0 1 72 53 9 8.5% 10.7% 4.1%	1 1 0 0 1 4 0 1 1 8.3% 26.2% 6.2%	13 21 5 2 4 180 116 58 5.3% 6.4% 1.0%
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - Mater filter	1 13 2 0 0 23 12 14 0.7% 1.3% 2.6% 9.2%	0 1 0 0 2 1 2 0.6% 0.6% 0.6% 0.6% 3.0% 18.5%	2 1 0 1 2 17 19 22 0.6% 0.3% 3.4% 4.4%	0 1 2 0 0 6 6 6 9 9 0.0% 0.0% 2.1% 0.0%	2 0 1 0 50 24 1 15.6% 8.3% 5.1% 6.4%	1 2 0 1 6 1 0 3.9% 10.1% 7.0% 1.6%	6 2 0 0 1 72 53 9 8.5% 10.7% 4.1% 27.0%	1 1 0 0 1 4 0 1 8.3% 26.2% 6.2% 6.2% 17.9%	13 21 5 2 4 180 116 5.3% 6.4% 1.0% 11.3%
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers urchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - Chicken purchase for 250Bs - mobile phone purchase for 250Bs - Water filter purchase for 250Bs - Food	1 13 2 0 0 23 12 14 14 .3% 2.6% 9.2% 32.0%	0 1 0 0 0 2 1 2 2 1 2 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.8% 0.8%	2 1 0 2 17 19 22 0.6% 0.3% 3.4% 4.4% 53.1%	0 1 2 0 0 6 6 6 6 9 9 0.0% 0.0% 0.0% 2.1% 0.0% 37.9%	2 0 1 0 50 24 1 15.6% 8.3% 5.1% 6.4% 33.1%	1 2 0 1 1 0 6 1 1 0 3.9% 10.1% 7.0% 1.6% 36.4%	6 2 0 0 1 1 72 53 9 9 8.5% 10.7% 4.1% 27.0% 9.7%	1 1 0 0 1 4 0 1 1 8.3% 26.2% 6.2% 6.2% 17.9% 3.4%	13 21 5 2 2 4 4 180 116 58 5.3% 6.4% 1.0% 11.3% 30.3%
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - Mater filter purchase for 250Bs - Food purchase for 250Bs - Cloth	1 13 2 0 0 23 12 14 	0 1 0 0 2 1 2 2 1 2 3 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.8% 0.8% 18.5% 11.9%	2 1 0 1 2 17 19 22 0.6% 0.3% 3.4% 4.4% 53.1% 9 7%	0 1 2 0 0 6 6 6 6 9 9 0.0% 0.0% 0.0% 2.1% 0.0% 37.9% 15.0%	2 0 1 0 50 24 1 15.6% 8.3% 5.1% 6.4% 33.1%	1 2 0 1 0 6 6 1 0 3.9% 10.1% 7.0% 1.6% 36.4% 18.6%	6 2 0 0 1 72 53 9 8.5% 10.7% 4.1% 27.0% 9.7% 8.8%	1 1 0 0 1 4 0 1 8.3% 26.2% 6.2% 17.9% 3.4% 5.5%	13 21 5 2 4 180 116 58 5.3% 6.4% 1.0% 11.3% 30.3% 11.4%
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - Mater filter purchase for 250Bs - Food purchase for 250Bs - Cloth purchase for 250Bs - Cloth purchase for 250Bs - School from	1 13 2 0 0 23 12 14 0.7% 1.3% 2.6% 9.2% 32.0% 11.9% 4.6%	0 1 0 0 0 2 1 2 1 2 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.8% 0.8% 0.8% 0.8% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4	2 1 0 1 2 17 19 22 0.6% 0.3% 3.4% 4.4% 53.1% 9.7% 0.2%	0 1 2 0 0 6 6 9 9 0.0% 0.0% 2.1% 0.0% 37.9% 15.0%	2 0 1 0 0 50 24 1 15.6% 8.3% 5.1% 6.4% 33.1% 13.4%	1 2 0 1 1 0 6 1 1 0 3.9% 10.1% 7.0% 1.6% 36.4% 18.6% 7.8%	6 2 0 0 1 72 53 9 8.5% 10.7% 4.1% 27.0% 8.8% 8.8%	1 1 0 0 1 4 0 1 8.3% 26.2% 6.2% 17.9% 3.4% 5.5% 4.1%	13 21 5 2 4 180 116 58 5.3% 6.4% 1.0% 11.3% 30.3% 11.4%
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - Chicken purchase for 250Bs - Water filter purchase for 250Bs - Food purchase for 250Bs - Food purchase for 250Bs - Cloth purchase for 250Bs - School fees purchase for 250Bs - School fees	1 13 2 0 0 23 12 14 0.7% 1.3% 2.6% 9.2% 32.0% 11.9% 4.6%	0 1 1 0 0 0 2 1 2 1 2 0.6% 0.6% 0.6% 3.0% 18.5% 29.8% 11.9% 4.2%	2 1 0 2 17 19 22 0.6% 0.3% 3.4% 4.4% 53.1% 9.7% 0.3%	0 1 2 0 0 6 6 6 9 9 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	2 0 1 0 50 24 1 1 5.6% 8.3% 5.1% 6.4% 33.1% 13.4% 5.7%	1 2 0 1 1 0 6 1 1 0 3.9% 10.1% 7.0% 1.6% 36.4% 18.6% 7.8%	6 2 0 0 1 72 53 9 9 8.5% 10.7% 4.1% 27.0% 9.7% 8.8% 1.6%	1 1 0 0 1 4 0 1 8.3% 26.2% 6.2% 6.2% 17.9% 3.4% 5.5% 4.1%	13 21 5 2 2 4 4 180 116 58 5.3% 6.4% 1.0% 11.3% 30.3% 11.4% 3.5%
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - Chicken purchase for 250Bs - Water filter purchase for 250Bs - Water filter purchase for 250Bs - Food purchase for 250Bs - School purchase for 250Bs - School fees purchase for 250Bs - Start own	1 13 2 0 0 23 12 14 0.7% 1.3% 2.6% 9.2% 32.0% 11.9% 4.6%	0 1 0 0 2 1 2 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 11.9% 4.2%	2 1 0 1 2 17 19 22 0.6% 0.3% 3.4% 4.4% 53.1% 9.7% 0.3%	0 1 2 0 0 6 6 6 9 9 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	2 0 1 0 50 24 1 15.6% 8.3% 5.1% 6.4% 33.1% 13.4% 5.7%	1 2 0 1 6 1 0 3.9% 10.1% 7.0% 1.6% 36.4% 18.6% 7.8%	6 2 0 0 1 1 72 53 9 9 8.5% 10.7% 4.1% 27.0% 9.7% 8.8% 1.6%	1 1 0 0 1 4 0 1 8.3% 26.2% 6.2% 17.9% 3.4% 5.5% 4.1%	13 21 5 2 4 180 116 58 5.3% 6.4% 1.0% 11.3% 30.3% 11.4% 3.5%
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - Mater filter purchase for 250Bs - Water filter purchase for 250Bs - Food purchase for 250Bs - Cloth purchase for 250Bs - School fees purchase for 250Bs - Start own business	1 13 2 0 0 23 12 14 0.7% 1.3% 2.6% 9.2% 32.0% 11.9% 4.6% 4.0%	0 1 0 0 2 1 2 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 18.5% 29.8% 11.9% 4.2% 3.6%	2 1 0 1 2 17 19 22 0.6% 0.3% 3.4% 4.4% 53.1% 9.7% 0.3% 0.3%	0 1 2 0 0 6 6 9 9 0.0% 0.0% 2.1% 0.0% 37.9% 15.0% 2.9% 0.7%	2 0 1 0 50 24 1 15.6% 8.3% 5.1% 6.4% 33.1% 13.4% 5.7% 2.9%	1 2 0 1 1 0 6 1 1 0 3.9% 10.1% 7.0% 1.6% 36.4% 18.6% 7.8% 1.6%	6 2 0 0 1 72 53 9 8.5% 10.7% 4.1% 27.0% 8.8% 8.8% 1.6% 3.8%	1 1 0 0 1 4 0 1 4 0 1 4 0 1 4 0 1 4 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 0 1 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	13 21 5 2 4 180 116 53% 6.4% 1.0% 11.3% 30.3% 11.4% 3.5% 2.6%
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - Chicken purchase for 250Bs - Mater filter purchase for 250Bs - Water filter purchase for 250Bs - Food purchase for 250Bs - Cloth purchase for 250Bs - School fees purchase for 250Bs - Start own business	1 13 2 0 0 23 12 14 0.7% 1.3% 2.6% 9.2% 32.0% 11.9% 4.6% 4.0%	0 1 1 0 0 2 1 2 1 2 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6%	2 1 0 2 17 19 22 0.6% 0.3% 3.4% 4.4% 53.1% 9.7% 0.3% 0.3%	0 1 2 0 0 6 6 6 9 9 0.0% 0.0% 0.0% 2.1% 0.0% 37.9% 15.0% 2.9% 0.7%	2 0 1 0 50 24 1 1 5.6% 8.3% 5.1% 6.4% 33.1% 13.4% 5.7% 2.9%	1 2 0 1 1 0 6 1 1 0 3.9% 10.1% 7.0% 1.6% 7.8% 1.6%	6 2 0 0 1 72 53 9 9 8.5% 10.7% 4.1% 27.0% 9.7% 8.8% 1.6% 3.8%	1 1 0 0 1 4 0 1 8.3% 26.2% 6.2% 6.2% 17.9% 3.4% 5.5% 4.1% 2.8%	13 21 5 2 4 180 116 58 5.3% 6.4% 1.0% 11.3% 30.3% 11.4% 3.5% 2.6%
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - Chicken purchase for 250Bs - Water filter purchase for 250Bs - Water filter purchase for 250Bs - Food purchase for 250Bs - School fees purchase for 250Bs - Start own business purchase for 250Bs - Start own	1 13 2 0 0 23 12 14 0.7% 1.3% 2.6% 9.2% 32.0% 11.9% 4.6% 4.0% 15.8%	0 1 0 0 2 1 2 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 18.5% 29.8% 11.9% 4.2% 3.6% 10.7%	2 1 0 1 2 17 19 22 0.6% 0.3% 3.4% 4.4% 53.1% 9.7% 0.3% 0.3% 0.3%	0 1 2 0 0 6 6 6 9 9 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	2 0 1 0 50 24 1 15.6% 8.3% 5.1% 6.4% 33.1% 13.4% 5.7% 2.9% 3.2%	1 2 0 1 1 0 6 1 1 0 3.9% 10.1% 7.0% 1.6% 36.4% 18.6% 7.8% 1.6% 7.8%	6 2 0 0 1 1 72 53 9 9 8.5% 10.7% 4.1% 27.0% 9.7% 8.8% 1.6% 3.8% 21.0%	1 1 0 0 1 4 0 1 8.3% 26.2% 6.2% 17.9% 3.4% 5.5% 4.1% 2.8% 18.6%	13 21 5 2 4 180 116 58 5.3% 6.4% 1.0% 11.3% 30.3% 11.4% 3.5% 2.6%
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - Chicken purchase for 250Bs - Water filter purchase for 250Bs - Start own purchase for 250Bs - Start own business purchase for 250Bs - invest money purchase for 250Bs - invest money	1 13 2 0 0 23 12 14 0.7% 1.3% 2.6% 9.2% 32.0% 11.9% 4.6% 4.0% 15.8%	0 1 1 0 0 2 1 2 1 2 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.8% 11.9% 4.2% 3.6% 10.7%	2 1 0 1 2 17 19 22 0.6% 0.3% 0.3% 3.4% 4.4% 53.1% 9.7% 0.3% 0.3% 0.3% 6.3%	0 1 2 0 0 6 6 9 9 0.0% 0.0% 2.1% 0.0% 37.9% 15.0% 2.9% 0.7% 0.7%	2 0 1 0 50 24 1 15.6% 8.3% 5.1% 6.4% 33.1% 13.4% 5.7% 2.9% 3.2%	1 2 0 1 1 0 6 1 1 0 3.9% 10.1% 7.0% 1.6% 36.4% 18.6% 7.8% 1.6% 7.8%	6 2 0 0 1 72 53 9 8.5% 10.7% 4.1% 27.0% 8.8% 1.6% 3.8% 21.0%	1 1 0 0 1 4 0 1 4 0 1 4 0 1 4 0 1 4 0 1 4 0 1 4 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	13 21 5 2 4 180 116 58 5.3% 6.4% 11.3% 30.3% 11.4% 3.5% 2.6%
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - Chicken purchase for 250Bs - Mater filter purchase for 250Bs - Water filter purchase for 250Bs - School fees purchase for 250Bs - School fees purchase for 250Bs - Start own business purchase for 250Bs - invest money purchase for 250Bs - invest money	1 13 2 0 0 23 12 14 0.7% 1.3% 2.6% 9.2% 32.0% 11.9% 4.6% 4.6% 4.0%	0 1 0 0 0 2 1 2 0.6% 0.6% 0.6% 0.6% 0.6% 18.5% 29.8% 11.9% 4.2% 3.6% 10.7%	2 1 0 1 2 17 19 22 0.6% 0.3% 3.4% 4.4% 53.1% 9.7% 0.3% 0.3% 0.3%	0 1 2 0 0 6 6 6 9 9 0.0% 0.0% 0.0% 2.1% 0.0% 37.9% 15.0% 2.9% 0.7%	2 0 1 0 50 24 1 1 5.6% 8.3% 5.1% 6.4% 33.1% 13.4% 5.7% 2.9% 3.2%	1 2 0 1 1 0 6 1 1 0 3.9% 10.1% 7.0% 1.6% 7.8% 1.6% 7.8%	6 2 0 0 1 72 53 9 9 8.5% 10.7% 4.1% 27.0% 9.7% 8.8% 1.6% 3.8% 21.0%	1 1 0 0 1 4 0 1 4 0 1 4 0 1 4 0 1 4 0 1 4 0 1 4 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 0 1 1 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	13 21 5 2 4 180 116 58 5.3% 6.4% 1.0% 11.3% 30.3% 11.4% 3.5% 2.6%
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - Chicken purchase for 250Bs - Water filter purchase for 250Bs - Water filter purchase for 250Bs - Food purchase for 250Bs - School fees purchase for 250Bs - Start own business purchase for 250Bs - invest money purchase for 250Bs - invest money purchase for 250Bs - household goods	1 13 2 0 0 23 12 14 0.7% 1.3% 2.6% 9.2% 32.0% 11.9% 4.6% 4.0% 15.8% 17.8%	0 1 0 0 2 1 2 0.6% 0.6% 0.6% 0.6% 0.6% 18.5% 29.8% 11.9% 4.2% 3.6% 10.7% 17.3%	2 1 0 1 2 2 17 19 22 0.6% 0.3% 0.3% 3.4% 4.4% 53.1% 9.7% 0.3% 0.3% 0.3% 6.3% 21.6%	0 1 2 0 0 6 6 6 9 9 0.0% 0.0% 0.0% 2.1% 0.0% 37.9% 15.0% 2.9% 0.7% 0.7%	2 0 1 0 50 24 1 1 5.6% 8.3% 5.1% 6.4% 3.3.1% 13.4% 5.7% 2.9% 3.2% 6.4%	1 2 0 1 1 0 6 1 1 0 3.9% 10.1% 7.0% 1.6% 7.8% 1.6% 7.8% 5.4%	6 2 0 0 1 1 72 53 9 9 8.5% 10.7% 4.1% 27.0% 9.7% 8.8% 1.6% 3.8% 21.0% 5.0%	1 1 0 0 1 4 0 1 4 0 1 8.3% 26.2% 6.2% 17.9% 3.4% 5.5% 4.1% 2.8% 18.6% 6.9%	13 21 21 35 2 4 4 180 116 58 5.3% 6.4% 1.0% 11.3% 30.3% 11.4% 3.5% 2.6% 11.7%
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - Chicken purchase for 250Bs - Water filter purchase for 250Bs - Food purchase for 250Bs - Cloth purchase for 250Bs - School fees purchase for 250Bs - Start own business purchase for 250Bs - invest money purchase for 250Bs - household goods	1 13 2 0 0 23 12 14 0.7% 1.3% 2.6% 9.2% 32.0% 11.9% 4.6% 4.0% 15.8% 17.8%	0 1 0 0 0 2 1 2 0.6% 0.6% 0.6% 0.6% 18.5% 29.8% 11.9% 4.2% 3.6% 10.7% 10.7%	2 1 0 1 2 17 19 22 0.6% 0.3% 0.3% 3.4% 4.4% 53.1% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3%	0 1 2 0 0 6 6 9 9 0.0% 2.1% 0.0% 37.9% 15.0% 2.9% 0.7% 10.7% 30.7%	2 0 1 0 50 24 1 15.6% 8.3% 5.1% 6.4% 33.1% 13.4% 5.7% 2.9% 3.2%	1 2 0 1 1 0 6 1 1 0 3.9% 10.1% 7.0% 1.6% 36.4% 18.6% 7.8% 1.6% 7.8% 5.4%	6 2 0 0 1 72 53 9 8.5% 10.7% 4.1% 27.0% 8.8% 1.6% 3.8% 21.0%	1 1 0 0 1 4 0 1 4 0 1 4 0 1 4 0 1 4 0 1 4 0 1 4 0 1 1 0 1 1 2 6.2% 17.9% 3.4% 5.5% 4.1% 2.8% 18.6% 6.9% 18.6% 18.6%	13 21 5 2 4 180 116 58 5.3% 6.4% 1.0% 11.3% 30.3% 11.4% 3.5% 2.6% 11.7%
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Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - Chicken purchase for 250Bs - Water filter purchase for 250Bs - School fees purchase for 250Bs - Start own business purchase for 250Bs - Start own business purchase for 250Bs - invest money purchase for 250Bs - household goods Willigness to pay - water filter 0-40 Bs	1 13 2 0 0 23 12 14 0.7% 1.3% 2.6% 9.2% 32.0% 11.9% 4.6% 4.0% 15.8% 17.8% 57.1%	0 1 0 0 0 2 1 2 0.6% 0.6% 0.6% 3.0% 18.5% 29.8% 11.9% 4.2% 3.6% 10.7% 17.3% 50.0%	2 1 0 1 2 17 19 22 0.6% 0.3% 3.4% 4.4% 53.1% 9.7% 0.3% 0.3% 0.3% 21.6% 36.3%	0 1 2 0 0 6 6 9 9 0.0% 0.0% 2.1% 0.0% 37.9% 15.0% 2.9% 0.7% 10.7% 30.7% 31.4%	2 0 1 0 50 24 1 1 5.6% 8.3% 5.1% 6.4% 33.1% 13.4% 5.7% 2.9% 3.2% 6.4%	1 2 0 1 1 0 6 1 1 0 3.9% 10.1% 7.0% 1.6% 36.4% 18.6% 7.8% 1.6% 7.8% 5.4%	6 2 0 0 1 72 53 9 9 8.5% 10.7% 4.1% 27.0% 9.7% 8.8% 1.6% 3.8% 21.0% 5.0%	1 1 0 0 1 4 0 1 8.3% 26.2% 6.2% 17.9% 3.4% 5.5% 4.1% 2.8% 18.6% 6.9% 23.4%	13 21 21 5 2 4 180 116 58 5.3% 6.4% 1.0% 11.3% 30.3% 11.4% 3.5% 2.6% 11.7% 13.5%
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - Chicken purchase for 250Bs - Start own purchase for 250Bs - Cloth purchase for 250Bs - Cloth purchase for 250Bs - School fees purchase for 250Bs - Start own business purchase for 250Bs - invest money purchase for 250Bs - household goods Willigness to pay - water filter 0-40 Bs 40-70 Bs	1 13 2 0 0 23 12 14 0.7% 1.3% 2.6% 9.2% 32.0% 11.9% 4.6% 4.6% 4.0% 15.8% 15.8% 57.1% 13.2%	0 1 0 0 0 2 1 2 0.6% 0.6% 0.6% 0.6% 0.6% 1.9% 4.2% 3.6% 10.7%	2 1 0 1 2 17 19 22 0.6% 0.3% 3.4% 4.4% 53.1% 9.7% 0.3% 0.3% 0.3% 6.3% 21.6% 16.3% 16.3%	0 1 2 0 0 6 6 9 0.0% 0.0% 2.1% 0.0% 37.9% 15.0% 2.9% 0.7% 10.7% 30.7% 31.4% 10.7%	2 0 1 1 0 0 24 1 1 5.0% 8.3% 5.1% 6.4% 33.1% 13.4% 5.7% 2.9% 3.2% 6.4% 6.4% 33.2%	1 2 0 1 1 0 6 1 1 0 3.9% 10.1% 7.0% 1.6% 36.4% 18.6% 7.8% 1.6% 7.8% 5.4%	6 2 0 0 1 72 53 9 8.5% 10.7% 4.1% 27.0% 9.7% 8.8% 1.6% 3.8% 21.0% 5.0% 17.2% 22.6%	1 1 0 0 1 4 0 1 4 0 1 4 0 1 4 0 1 4 0 1 4 1 8.3% 26.2% 6.2% 17.9% 3.4% 5.5% 4.1% 2.8% 18.6% 6.23% 18.6% 18.6% 18.6% 18.6% 18.0% 19.0% 18.0%	13 21 21 35 2 2 4 4 180 116 58 5.3% 6.4% 1.0% 11.3% 30.3% 11.4% 3.5% 2.6% 11.7% 2.6% 11.7%
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Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - Chicken purchase for 250Bs - Chicken purchase for 250Bs - Chicken purchase for 250Bs - Colth purchase for 250Bs - Cloth purchase for 250Bs - School fees purchase for 250Bs - Start own business purchase for 250Bs - Invest money purchase for 250Bs - Invest money purchase for 250Bs - Invest money purchase for 250Bs - Nousehold goods Willigness to pay - water filter 0-40 Bs 40-70 Bs 70-100 Bs 130-160 Bs 130-130 Bs 130-130 Bs 130-190 Bs 190-220 Bs >220 Bs Picture game - value water filter Most important Second important	1 1 1 1 2 0 0 2 3 12 14 0.7% 1.3% 2.6% 9.2% 32.0% 32.0% 4.6% 1.9% 4.6% 1.9% 4.6% 1.5.8% 7.7% 1.3% 2.6% 3.2% 5.6% 3.3% 6.3% 0.3% 6.3% 9.6% 10.6%	0 1 0 0 0 0 2 1 2 0.6% 0.6% 0.6% 1.9% 4.2% 3.6% 10.7% 10.7% 10.7% 50.0% 13.1% 16.1% 8.3% 0.6% 0.6% 0.6% 0.6% 10.7%	2 1 0 1 2 17 19 22 0.6% 0.3% 3.4% 4.4% 53.1% 9.7% 0.3% 0.	0 1 2 0 0 0 6 6 9 0.0% 0.0% 2.1% 0.0% 37.9% 15.0% 2.9% 0.7% 10.7% 30.7% 30.7% 2.14% 7.1% 6.4% 2.1% 13.6% 9.3% 14.3%	2 0 1 1 0 0 24 1 1 5.0% 8.3% 5.1% 6.4% 33.1% 13.4% 5.7% 2.9% 3.2% 6.4% 3.2% 10.8% 3.6% 2.8.3% 10.8% 3.2% 0.3% 0.0% 11.1%	1 2 0 1 1 0 6 1 1 0 3.9% 10.1% 7.0% 1.6% 36.4% 18.6% 7.8% 1.6% 7.8% 1.6% 7.8% 1.6% 0.1% 1.6% 0.1% 1.6% 0.1% 1.6% 0.1% 0.1% 1.6% 0.1% 0.1% 1.6% 0.1% 0.0% 0.1% 0.1% 0.0	6 2 0 0 1 72 53 9 8.5% 10.7% 4.1% 27.0% 9.7% 8.8% 1.6% 3.8% 21.0% 5.0% 17.2% 22.6% 31.3% 5.0% 1.6% 1.2%	1 1 1 0 0 0 1 4 0 1 4 0 1 4 0 1 4 0 1 4 0 1 4 1 8.3% 26.2% 6.2% 17.9% 3.4% 5.5% 4.1% 2.8% 18.6% 2.3.4% 18.6% 2.3.4% 2.3.4% 2.3.4% 10.0% 3.0.3% 2.1.4% 2.8% 2.1.4% 3.4% 3.4% 2.3.4% 10.0% 1	13 21 21 2 4 180 116 58 5.3% 6.4% 1.0% 11.3% 30.3% 11.4% 3.5% 2.6% 11.7% 13.5% 2.6% 11.7% 13.5% 2.2% 4.0% 15.60% 9.80% 10.70%
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - Chicken purchase for 250Bs - Chicken purchase for 250Bs - Chicken purchase for 250Bs - School fees purchase for 250Bs - School fees purchase for 250Bs - Start own business purchase for 250Bs - Invest money purchase fo	1 1 1 1 2 0 0 2 2 1 2 1 1 2 1 2 1 2 1 2 3 2 6 3 2 3 2 6 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3	0 1 0 0 0 0 2 1 2 0.6% 0.6% 0.6% 29.8% 11.9% 4.2% 3.0% 10.7% 10.7% 10.7% 10.7% 10.7% 10.7% 10.7% 10.7% 10.7% 10.6% 0.6% 0.6% 0.6% 0.6% 10.7%	2 1 1 0 1 2 17 19 22 0.6% 0.3% 3.4% 4.4% 53.1% 9.7% 0.3% 0.4% 0.3% 0.4% 0.3% 0.4% 0.3% 0.4% 0.3% 0.4% 0.3% 0.4% 0.3% 0.4% 0.3% 0.4% 0.3% 0.4% 0.3% 0.4% 0.3%	0 1 2 0 0 0 6 6 9 9 0.0% 2.1% 0.0% 37.9% 15.0% 2.9% 0.7% 0.7% 0.7% 0.7% 10.7% 30.7% 30.7% 31.4% 0.0% 5.0% 9.3% 13.6	2 0 0 1 0 0 50 24 1 1 5.6% 8.3% 5.1% 6.4% 33.1% 13.4% 5.7% 2.9% 3.2% 6.4% 3.2% 6.4% 3.5% 3.2% 10.8% 10.8% 3.5% 3.2% 0.3% 0.0% 11.1% (11.1% (11.1%) (11.1%) (11.2%) (14	1 2 0 1 1 0 6 1 1 0 3.9% 10.1% 7.0% 1.6% 36.4% 18.6% 7.8% 1.6% 7.8% 1.6% 7.8% 1.6% 0.8% 0.0% 0.0% 0.0% 0.0% 0.0% 7.8%	6 2 0 0 1 72 53 9 8.5% 10.7% 4.1% 27.0% 9.7% 8.8% 1.6% 3.8% 21.0% 5.0% 17.2% 31.3% 3.4% 5.3% 5.0% 1.6% 12.2% 9.1% 13.2% 2.48%	1 1 1 0 0 0 1 4 0 1 4 0 1 4 0 1 4 0 1 4 0 1 4 0 1 4 1 2 8.3% 2 6.2% 17.9% 3.4% 5.5% 4.1% 2.8% 18.6% 2.3% 0.23% 4.1% 2.8% 2.3% 0.23% 2.3.4% 2.8% 2.3.4% 2.3.4% 2.3.4% 2.3.4% 2.3.4% 2.3.4% 2.3.8% 2.3.4% 2.3.4% 2.3.8% 2.3.4% 2.3.8% 2.3.4% 2.3.8% 2.3.4% 2.3.8% 2.3.4% 2.3.8% 2.3.4% 2.3.8% 2.3.8% 2.3.4% 2.3.8% 2.3.8% 2.3.8% 2.3.8% 2.3.8% 2.3.4% 2.3.8% 2	13 21 5 2 4 180 116 58 5.3% 6.4% 1.0% 11.3% 30.3% 11.4% 3.5% 2.6% 11.7% 13.5% 37.2% 13.5% 2.6% 11.7% 13.5% 16.9% 13.4% 5.0% 3.5% 2.2% 4.0% 15.60% 9.80% 10.70% 14.40% 10.7% 10.60% 10.60% 10.7% 10.60% 10.70% 10.7
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - Chicken purchase for 250Bs - Water filter purchase for 250Bs - Food purchase for 250Bs - School fees purchase for 250Bs - School fees purchase for 250Bs - Start own business purchase for 250Bs - Invest money purchase for 250Bs - Invest money	1 1 1 1 2 0 0 2 2 1 2 1 2 1 2 1 2 1 2 1 2 3 2 6 % 9.2% 32.0% 32.0% 32.0% 11.9% 4.6% 4.6% 15.8% 57.1% 13.2% 8.9% 5.6% 3.3% 6.3% 3.3% 6.3% 9.6% 10.6% 5.9% 0.2% 0.5% 0.2% 0.5% 0.2% 0.5% 0.2% 0.5% 0.2% 0.5% 0.2% 0.5% 0.2% 0.5% 0.2% 0.5% 0.2% 0.5% 0.5% 0.2% 0.5% 0.2% 0.5% 0	0 1 0 0 0 0 2 1 2 0.6% 0.6% 0.6% 0.6% 0.6% 11.9% 4.2% 1.9% 4.2% 1.9% 4.2% 1.9% 4.2% 0.6% 0.	2 1 0 1 2 17 19 22 0.6% 0.3% 3.4% 4.4% 53.1% 0.3% 0.4% 0.4% 0.4% 0.4% 0.3% 0.4% 0.4% 0.3% 0.4% 0.4% 0.3% 0.4% 0.4% 0.4% 0.2% 0.	0 1 2 0 0 0 6 6 9 9 0.0% 0.0% 0.0% 2.1% 0.0% 37.9% 15.0% 2.9% 0.7% 10.7% 30.7% 30.7% 31.4% 10.7% 2.1% 0.0% 1.5.0% 2.9% 1.5.0% 2.1% 0.0% 1.5.0% 2.1% 0.0% 1.5.0% 0.3% 1.5.0% 0.1% 0.0% 0	2 0 0 1 1 0 0 24 1 1 5.6% 8.3% 5.1% 6.4% 33.1% 3.1% 3.1% 2.9% 3.2% 6.4% 3.2% 6.4% 3.2% 0.3% 0.0% 0.0% 0.0% 14.0% 11.1% 11.8% 14.3% 0.1% 0.1% 0.1% 0.0% 0.0%	1 2 0 1 1 0 6 1 1 0 3.9% 10.1% 7.0% 1.6% 36.4% 18.6% 7.8% 7.8% 1.6% 7.8% 1.6% 0.8% 0.0	6 2 0 0 1 72 53 9 8.5% 10.7% 4.1% 27.0% 9.7% 9.7% 9.7% 9.7% 22.6% 31.3% 13.5% 13.5% 5.0% 1.6% 1.6% 1.6% 1.22% 9.1% 1.2%	1 1 1 0 0 0 1 4 0 1 4 0 1 8.3% 26.2% 17.9% 3.4% 5.5% 4.1% 2.8% 18.6% 6.9% 18.6% 2.8% 2.8% 2.3.4% 11.0% 30.3% 21.4% 11.0% 30.3% 21.4% 11.0% 30.3% 21.4% 11.0% 30.3% 21.4% 11.0% 30.3% 21.4% 11.0% 30.3% 21.4% 11.0% 30.3% 21.4% 11.0% 30.3% 21.4% 2.8% 2.1.0% 3.1.0% 3.1.3% 2.8% 2.8% 2.1.1% 2.8% 2.8% 2.1.1% 2.8% 2.1.1% 2.8% 2.1.1% 2.8% 2.1.1% 2.8% 2.1.1% 2.8% 2.1.1% 2.8% 2.1.1% 2.8%	13 21 21 32 4 180 116 58 5.3% 6.4% 1.0% 11.3% 30.3% 11.4% 3.5% 2.6% 11.7% 13.5% 16.9% 13.4% 13.4% 13.4% 5.0% 3.5% 2.2% 4.0% 15.60% 9.80% 10.70% 14.10%
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Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - School fees purchase for 250Bs - School fees purchase for 250Bs - Start own business purchase for 250Bs - Invest money purchase for 250Bs - Invest money Filter game - Value water filter Most important Second i	1 1 1 1 2 0 0 2 3 12 14 0.7% 1.3% 2.6% 9.2% 32.0% 11.9% 4.6% 4.0% 15.8% 17.8% 57.1% 57.1% 57.1% 3.3% 6.3% 0.3% 0.6% 10.6% 5.9% 8.3% 6.6%	0 1 0 0 0 0 2 1 2 0.6% 0.6% 0.6% 1.9% 4.2% 3.0% 1.9% 4.2% 3.6% 10.7% 10.7% 17.3% 50.0% 13.1% 16.1% 8.3% 3.0% 0.6% 0.6% 0.6% 10.7% 21.4% 10.1% 4.3% 10.1	2 1 1 0 1 2 17 19 22 0.6% 0.3% 3.4% 4.4% 53.1% 9.7% 0.3% 0.4% 0.3% 0.4% 0.3% 0.4% 0.3% 0.4% 0.3% 0.4% 0.3% 0.3% 0.3% 0.4% 0.3% 0.03% 0.	0 1 2 0 0 0 6 6 9 9 0.0%	2 0 0 1 1 0 0 24 1 1 5.0% 6.4% 33.1% 13.4% 5.7% 2.9% 3.2% 6.4% 3.2% 6.4% 3.2% 0.3% 0.0% 10.8% 3.5% 3.2% 0.3% 0.0% 14.0% 11.1% 11.8% 14.3%	1 2 0 1 1 0 6 1 1 0 3.9% 10.1% 7.0% 1.6% 36.4% 18.6% 7.8% 1.6% 7.8% 1.6% 7.8% 1.6% 0.3% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.15.5% 4.7% 8.5% 7.8% 15.5% 14.7% 14.7% 14.7% 15.5% 14.7% 14.7% 14.7% 15.5% 14.7% 15.5% 14.7% 15.5% 14.7% 15.5% 14.7% 15.5% 14.7% 15.5% 14.7% 15.5% 14.7% 15.5% 14.7% 15.5% 14.7% 15.5% 14.7% 15.5% 14.7% 15.5% 14.7% 15.5% 14.7% 15.5% 14.7% 15.5% 14.7% 15.5% 14.7% 15.5% 15.5% 14.7% 15.5% 15.5% 15.5% 14.7% 15.5% 15.	6 2 0 0 1 72 53 9 8.5% 10.7% 4.1% 27.0% 8.8% 1.6% 3.8% 21.0% 5.0% 17.2% 3.8% 5.0% 13.5% 3.4% 5.3% 5.0% 1.6% 12.2% 9.1% 13.2% 24.8% 16.9% 11.9%	1 1 1 1 1 0 0 0 0 1 1 4 0 0 1 1 4 0 0 1 1 4 0 0 1 1 8.3% 26.2% 17.9% 3.4% 5.5% 4.1% 2.8% 18.6% 18.6% 2.8% 2.8% 2.8% 2.8% 2.8% 2.8% 2.8% 2.8	13 211 5 2 4 180 116 58 5.3% 6.4% 1.0% 11.3% 30.3% 2.6% 11.7% 2.6% 11.7% 13.5% 2.6% 11.7% 13.5% 2.2% 4.0% 15.60% 9.80% 10.70% 14.10% 12.80% 11.30%
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - Chicken purchase for 250Bs - Water filter purchase for 250Bs - Cooth purchase for 250Bs - School fees purchase for 250Bs - School fees purchase for 250Bs - Start own business purchase for 250Bs - Invest money purchase for 250Bs - Invest money for thom	1 1 1 1 2 0 0 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 3 2 6 % 9.2% 3.2.0% 3.2.0% 3.2.0% 3.2.0% 1.9% 4.6% 4.6% 5.8% 5.7.1% 13.2% 8.9% 5.6% 3.3% 6.3% 3.3% 6.3% 6.6% 6.6% 6.6%	0 1 0 0 0 2 1 2 0.6% 0.6% 0.6% 0.6% 0.6% 11.9% 4.2% 1.9% 4.2% 1.9% 4.2% 1.9% 4.2% 0.6% 0.1% 0.1% 0.1% 0.6% 0.6% 0.6% 0.1% 0.1% 0.1% 0.1% 0.6% 0.6% 0.1%	2 1 0 1 2 17 19 22 0.6% 0.3% 3.4% 4.4% 53.1% 0.3% 0.4% 0.1.9% 0.3% 0.4% 0.1.9% 0.3% 0.1.9% 0.3% 0.1.9% 0.2% 0.	0 1 2 0 0 6 6 9 9 0.0% 0.0% 0.0% 2.1% 0.0% 37.9% 15.0% 2.9% 0.7% 10.7% 30.7% 30.7% 2.1% 1.4% 7.1% 6.4% 2.1% 1.3.6% 1.3.6% 1.3.6% 1.4.3%	2 0 0 1 1 0 0 24 1 1 5.6% 8.3% 5.1% 6.4% 33.1% 3.1% 3.1% 3.2% 2.9% 3.2% 6.4% 3.2% 0.3% 0.0% 0.0% 0.0% 14.0% 11.1% 11.8% 14.3% 0.5.0% 6.1%	1 2 0 1 1 0 6 1 1 0 3.9% 10.1% 7.0% 1.6% 36.4% 18.6% 7.8% 7.8% 7.8% 1.6% 7.8% 1.6% 0.8% 0.0% 0.0% 0.0% 0.0% 0.0% 15.5% 4.7% 8.5% 14.7% 9.3%	6 2 0 0 1 72 53 9 8.5% 10.7% 4.1% 27.0% 9.7% 9.7% 9.7% 9.7% 9.7% 9.7% 9.7% 10.7% 9	1 1 1 0 0 0 1 4 0 1 8.3% 26.2% 17.9% 3.4% 5.5% 4.1% 2.8% 18.6% 6.9% 18.6% 2.8% 2.1.4% 3.1.1% 2.8%	13 21 21 35 5 2 4 180 116 58 5.3% 6.4% 1.0% 11.3% 3.5% 2.6% 11.7% 13.5% 11.7% 13.5% 16.9% 13.4% 5.0% 3.5% 2.2% 4.0% 15.60% 9.80% 10.70% 14.10% 12.80% 11.30% 7.90%
Water Kiosk CBO door to door Supermarket Small shop MFI Total calcutated Filters visible in HH (dry or used) Filter use in numbers purchase for 250Bs - Radio purchase for 250Bs - Radio purchase for 250Bs - Chicken purchase for 250Bs - Chicken purchase for 250Bs - Start own burchase for 250Bs - Cloth purchase for 250Bs - Cloth purchase for 250Bs - School fees purchase for 250Bs - Start own business purchase for 250Bs - Invest money purchase for 250Bs - Invest money filter Invest mon	1 1 1 1 2 0 0 2 3 12 14 0.7% 1.3% 2.6% 9.2% 32.0% 32.0% 32.0% 4.6% 4.0% 1.9% 4.6% 1.3% 5.8% 3.3% 5.6% 3.3% 6.3% 3.3% 6.6% 8.6% 6.6% 8.6%	0 1 0 0 0 0 2 1 2 0.6% 0.6% 0.6% 1.9% 4.2% 1.9% 4.2% 1.9% 4.2% 1.9% 4.2% 1.9% 4.2% 0.6% 8.3% 0.6% 0.7% 0.1	2 1 0 1 2 17 19 22 0.6% 0.3% 0.3% 3.4% 4.4% 53.1% 9.7% 0.3% 0.4% 0.19%	0 1 2 0 0 0 6 6 9 9 0.0% 0.0% 2.1% 0.0% 37.9% 15.0% 2.9% 0.7% 10.7% 30.7% 10.7%	2 0 0 1 1 0 0 24 1 1 5.0% 8.3% 5.1% 6.4% 33.1% 6.4% 33.1% 13.4% 5.7% 2.9% 3.2% 6.4% 6.4% 3.6.9% 2.8.3% 10.8% 3.6.9% 2.8.3% 10.8% 3.5% 0.0% 0.0% 11.1% 11.1% 6.4% 6.4% 6.4% 6.4% 6.4% 6.4% 6.4% 6.4	1 2 0 1 1 0 6 1 1 0 3.9% 10.1% 7.0% 1.6% 36.4% 18.6% 7.8% 1.6% 7.8% 1.6% 7.8% 1.6% 7.8% 1.6% 0.1% 1.6% 36.4% 1.6% 1.6% 36.4% 1.6% 1.6% 36.4% 1.6% 1.6% 36.4% 1.6% 36.4% 1.6% 1.6% 36.4% 1.6% 36.4% 1.6% 36.4% 1.6% 36.4% 1.6% 36.4% 1.6% 36.4% 1.6% 36.4% 1.6% 36.4% 1.6% 36.4% 1.6% 36.4% 1.6% 36.4% 1.6% 36.4% 1.6% 36.4% 1.6% 36.4% 1.6% 1.6% 36.4% 1.6% 1.6% 36.4% 1.6% 1.6% 36.4% 1.6% 1.6% 36.4% 1.6% 1.6% 36.4% 1.6% 1.6% 36.4% 1.6% 36.4% 1.6% 36.4% 1.6% 36.4% 1.6% 36.4% 1.6% 36.4% 1.6% 3.5% 3.5	6 2 0 0 1 72 53 9 8.5% 10.7% 4.1% 27.0% 9.7% 8.8% 1.6% 3.8% 21.0% 5.0% 17.2% 22.6% 31.3% 13.5% 3.4% 5.3% 5.0% 1.6% 1.6% 13.5% 3.4% 1.6% 1.6% 1.6% 1.3% 1.	1 1 1 0 0 0 1 4 0 1 4 0 1 4 0 1 4 0 1 4 0 1 4 1 8.3% 26.2% 17.9% 3.4% 5.5% 4.1% 2.8% 18.6% 2.8% 18.6% 2.3.4% 3.4% 3.4% 3.4% 2.8% 18.6% 2.3.4% 11.0% 3.0.3% 2.3.4% 11.0% 3.0.3% 2.3.4% 11.0% 3.0.3% 2.3.4% 11.0% 3.0.3% 2.3.4% 11.0% 3.0.3% 2.3.4% 11.0% 3.0.3% 2.3.4% 11.0% 3.0.3% 2.3.4% 11.0% 3.0.3% 2.3.4% 11.0% 3.0.3% 2.3.4% 11.0% 3.0.3% 2.3.4% 11.0% 3.0.3% 2.3.4% 11.0% 3.0.3% 2.3.4% 11.0% 3.0.3% 2.3.4% 11.0% 3.0.3% 2.3.4% 11.0% 3.0.3% 2.3.4% 2.8% 11.0% 3.0.3% 2.3.4% 2.8% 11.0% 3.0.3% 2.1.4% 2.8% 11.0% 3.0.3% 2.1.4% 2.8% 11.0% 3.0.3% 2.3.4% 11.0% 3.0.3% 2.3.4% 11.0% 3.0.3% 2.3.4% 11.0% 3.0.3% 2.3.4% 11.0% 3.0.3% 2.8% 11.0% 3.0.3% 2.8% 11.0% 3.0.3% 2.8% 11.0% 3.0.3% 2.8% 11.0% 3.0.3% 2.8% 1.1.7% 2.8% 1.1.7% 2.8% 1.1.7% 2.8% 1.1.7% 2.8% 2.8% 1.1.7% 2.8% 1.1.7% 2.8% 2.8% 1.1.7% 2.8% 2.8% 2.8% 1.1.7% 2.8% 2.8% 2.8% 1.1.7% 2.8%	13 21 32 4 180 116 58 5.3% 6.4% 1.0% 11.3% 30.3% 2.6% 11.7% 3.5% 2.6% 11.7% 13.5% 37.2% 17.8% 16.9% 13.4% 5.0% 37.2% 17.8% 16.9% 13.4% 5.0% 0.35% 2.2% 4.0% 15.60% 0.80% 10.70% 14.10% 12.80% 11.30% 7.50% 7.50% 7.50%

9th important	13.9%	19.0%	9.4%	5.7%	5.7%	19.4%	7.5%	6.2%	10.20%
N	297	167	313	130	309	128	310	144	1798
Education level interviewee	07.00/	10 50/	0.00/	0.00/	00.00/		10.00/	10.10/	
Primary	37.0%	42.5%	8.3%	2.3%	62.8%	63.3%	42.3%	43.1%	37.80%
Secondary	47.8%	48.5%	36.1%	33.8%	33.0%	33.6%	43.9%	40.3%	40.00%
College	14.5%	9.0%	55.6%	63.8%	4.2%	3.1%	13.9%	16.7%	22.20%
						$x^{2}(1) = 8.266$			
HWTS use vs Turbidity					$y^2 = 0.771$	p=0.004			
HWTS use vs Source Shallow well					n = 0.002				
HWTS use vs Source Shallow well					p=0.002				ł
HWTS use vs Source opring									
									x ² =24.735
HWTS use vs Source Piped water HWTS use vs River *									p=0.000
									x ² =41.244
HWIS use vs Water truck					v ² -5 772				p=0.000
HWTS use vs Bottled water					p=0.016	2 0 700			2 00 500
HWTS use vs Rain water			2 . = = =			x ⁻ =8.723 p=0.003			x ⁻ =22.500 p=0.000
HWTS use vs water tank			x ² =4.727 p=0.030						
HWTS use vs Education		l	F 0.000	l	x ² =9.997	l 		1	$x^2 = 36.932$
interviewee					p=0.007				p=0.000
HWTS use vs Gender *					P				ns
HWTS use vs Importance treating	x ² =32.688	x ² =27.162	x ² =8.548	x ² =16.480	x ² =29.782	x ² =33.891			x ² =196.932
water	p=0.000	p=0.000	p=0.036	p=0.000	p=0.000	p=0.000			p=0.000
HWTS use vs drinking untreated		x ² =17.772		x ² =7.834	x ² =16.604	x ² =32.001			x ² =91.435
water how bad		p=0.001		p=0.050	p=0.005	p=0.000			p=0.000
					x ² =19.371	x ² =10.455			x ² =46.408
HWTS use vs Neighbours					p=0.001	p=0.015			p=0.000
HWTS use vs HWTS promotion					x ² (1)=5.023				x ² (1)=26.055
	ns	ns	ns	ns	p=0.025	ns	ns	ns	p=0.000
center	ns	ns	ns	ns	x (1)=3.190 p=0.075	ns	ns	ns	ns
									x ² (1)=3.131
HWIS use vs into through CBO	ns	ns	ns	ns	ns	ns	ns	ns	p=0.077
Hwits use vs into through Promotor	nc	ne	DC	ne	ne	ne	ne	200	X(1)=15.174
HWTS use vs info through shop	115	115	115	115	115	115	115	115	p=0.000
owner	ns	ns	ns	ns	ns	ns	ns	ns	ns
HWTS use vs info through									
HWTS use vs info through	ns	ns	ns	ns	ns	ns	ns	ns	ns
community meeting	ns	ns	ns	ns	ns	ns	ns	ns	ns
HWTS use vs info through									
demonstration in town HWTS use vs info through TV	ns	ns	ns	ns	ns	ns	ns	ns	ns
radio, newspaper	ns	ns	ns	ns	ns	ns	ns	ns	ns
HWTS use vs info through other	ns	ns	ns	ns	ns	ns	ns	ns	ns
N	297	167	313	130	309	128	310	144	834
HWTS use vs found promotion			$x^{2}(1)=3.712$ n=0.054						ns
HWTS use vs promotion changed	x ² (1)=4.566		F-0.004						x ² (1)=7.907
behaviour	p=0.033								p=0.005
HWTS use vs who buys good over					$x^2 = 17.880$	x ² =11.126			$x^2 = 36.525$
50BS	v^2 -22.828	v ² -8 383		$x^2 - 8.650$	p=0.001 $x^2-25.403$	p=0.011 $x^2-10.216$			p=0.000
None	n = 0.000	n = 0.003		p=0.030	n = 0.000	p=0.001			p=0.000
	P 01000				$x^2 = 22.409$	$x^2 = 13.438$			$x^2 = 75.492$
HWTS use vs monthly expenditure					p=0.000	p=0.009			p=0.000
					x ² =19.505	x ² =18.815			x ² =121.930
HWTS use vs monthly income					p=0.001	p=0.000			p=0.000
HWTS use vs weekly available					x = 10.877 p=0.002	x = 14.326 p=0.006			x = 030.050 p=0.000
HWTS use vs willingness to pay -					x ² =35.683	- 0.000			x ² =51.705
water filter					p=0.000				p=0.000
	x ² (2)=6.254								x ² (3)=51.531
HWTS use vs type of sanitation	p=0.044								p=0.000

Analysis Baseline Kenya, Intervention/Control A = with promotion, B= without promotion 1= Munyu Water Project, 2= Community health workers, 3= CBO's, 4= KWAHO Promoter

Area	1A	1B	2A	2B	3A	3B	4A	4B	All Areas
N	301	153	305	155	310	169	308	165	1884
in percent									
HWTS use	64.4	49	60.7	60	58.7	62	60.6	76.4	61.4
HWTS use frequent	40.2	25.5	35.4	32.3	25.5	37.3	35.1	/0.4	34.6
Poiling froquent use	40.2	23.3	35.4	1.2	23.3	37.3	15.6	49.1	0.1
Chloring frequent use	11.3	J.Z	01.1	1.3	4.3	4.1	10.0	17.0	0.1
Chionnation frequent use	29.9	17.0	31.1	29.7	20.3	32	C.61	32.1	25.1
Filter frequent use	0.5	0	1.3	0.6	1	0	0	0	0.5
Filter use in percent	0.7	0	1.3	0.6	1	0	0	0	0.5
Filter use in numbers	2	0	4	1	3	0	0	0	10
*PUR, SODIS, Filtration with a cloth	n are not used ir	n project area							
N	301	153	305	155	310	169	308	165	1884
in percent									
Know boiling	72.9	60.8	61	70.3	71.3	60.8	76.6	80	69.6
Know chlorination	84	79.1	88.5	93.5	77.9	73.1	79.5	84.2	82.4
Know PUR	17.6	27.5	17	17.4	20.2	28.1	12.5	20	19.1
Know Filtration with Cloth	9.2	2.6	5.2	9	2.5	4.7	1.9	0.6	4.5
Know SODIS	1	0	0	0	0	0.6	0.3	0	0.3
Know Filter	4 9	26	1	1 9	44	8.8	3.8	1.8	3.7
Does not know HWTS	1.6	15.7	85	3.0	18.3	18.1	11.5	8.5	11.1
Does not know new 15	4.0	10.7	0.5	0.0	10.5	10.1	11.5	0.5	11.1
N	206	150	205	155	217	171	210	165	100/
IN in persent	306	103	305	100	317	171	312	C01	1004
In percent									
Water is turbid	78.8	83	62.3	89.7	96.8	62.4	27.2	46.7	51.8
Source Borehole	12.4	1.3	18	1.3	0.9	1.8	0	0	5.5
Source Shallow well	17.3	5.6	37.4	0.6	0.6	14.6	3.5	0.6	11.5
Source Piped	54.6	72.5	1.6	1.3	0.9	0.6	0	10.3	16.5
Source River, Open well	15.7	17.6	55.7	96.8	96.8	18.7	97.8	97	63.6
Source Water Vendor	16	15.7	2	0	0.6	0	0.3	0.6	4.4
Source Water Trucking	1.6	2	0	0	0	0	0.3	0	0.5
Source Rain Water	9.2	17	82	9.7	19.0	18 7	14 1	73	12
Source Pond	5.Z 6.2	12 7	0.2	5.7	19.9	75.4	5 1	1.3	10
	206	15.7	0.7	155	217	171	212	1.2	1994.00
N	306	153	305	155	317	171	312	165	1684.00
In percent	01.1	07.4	00.0	07.4		01.0	75.0	70.0	00.0
Information source Radio	94.1	97.4	92.8	97.4	83	81.9	75.3	70.3	86.3
Information source Newspaper	8.2	4.6	4.9	6.5	3.5	1.8	1.6	0	4
Information source TV	28.1	17.6	16.7	27.7	3.5	2.9	1.9	2.4	12.4
Information source Com-Meeting	18.3	27.5	19.7	23.9	35	38.6	43.3	42.4	30.6
Information source Neighbours	13.4	16.3	23.6	21.9	30.6	36.3	42	46.1	28.6
N	302	150	305	155	316	171	312	164	1875.00
in percent									
Own VIP latrine	32.5	27.3	31.1	12.3	38.2	46.2	34	34.8	29.9
Shared VIP latrine	25.8	22.7	10.5	97	17.7	22.8	20.8	20.1	18.8
Bushes	0.3	0.7	10.0	0.1	0.9	0.6	3.8	3.7	13
Own PIT latrine	20.1	35.3	35.4	40	20	10.3	21.1	20.1	21.4
Shared PIT latring	23.1	1/	33.4	40	11.1	19.5	10.3	12.4	19.7
	12.3	14	41	31.1	11.1	11.1	10.3	13.4	10.7
N	306	153	305	155	317	171	312	165	1884.00
in percent		_							
raw water has no impact	6.2	6.5	3.6	5.2	7.3	2.9	8.7	6.7	6.1
raw water causes Typhoid fever	87.9	89.5	86.2	81.9	58.4	77.2	68.3	58.2	75.5
raw water causes Diarrhoea	40.8	46.4	49.5	41.9	53.6	57.3	46.5	62.4	49.3
raw water causes Malaria	9.8	16.3	12.5	23.2	11.7	8.8	7.7	10.9	11.8
raw water causes Cholera	54.6	55.6	52.8	45.2	33.4	28.7	31.7	37.6	42.4
raw water causes Head ache	13.1	11.1	9.8	15.5	0.6	0.6	0	1.2	6.2
raw water causes Worms	0.3	1.3	0.7	0	6.3	3.5	1.6	2.4	2.1
raw water causes germs	1	0	2.3	5.2	27.4	24.6	9.3	5.5	9.8
raw water causes Amoeba	13	52	5.6	5.8	33.4	48.5	46.8	52.7	24.4
raw water causes Skin diseases	0	0.7	0.3	0.0	0.9	1.2	0	0.6	0.4
N	206	152	205	165	217	171	210	165	1894.00
in porcent	300	153	305	100	317	171	312	100	1004.00
nover wash handa		^	0		0.0	0.0	0	4.0	0.4
	0	0	0	0	0.0	2.3	0	1.2	0.4
wash hands before cooking	43.1	47.1	36.1	34.8	8.2	25.1	16.3	21.8	27.8
wash hands after tollet	96.1	95.4	96.7	96.8	54.3	56.7	63.1	63	//.2
wash hands before eating	79.1	83.7	90.8	87.1	58.7	62.6	64.4	77.6	74.5
wash hands after eating	42.2	40.5	43.6	34.2	27.1	33.3	33	24.2	35.2
wash hands whenever dirty	0	0	0	0	44.8	35.1	34.9	25.5	18.7
N	300	150	305	154	313	171	312	165	1870.00
Where do you buy Chlorine									
Products	in percent								
at the market	17.3	16	16.1	7.8	80.8	78.4	78.8	80.6	48.3
small kiosk	3	0	1	2.6	4.8	1.8	2.9	1.2	2.4
village shop	51.3	58.7	50.5	50.6	8	3.5	4.8	3	28.1
all purpose or hardware shop	18.3	12 7	15.4	17.5	0	0	0	0	7.9
big supermarket	0.3	12.7	10.1	17.5	1 0	1 2	03	1.8	6.4
shomist pharmany	0.7	12.1	5.0	2.0	1.5	15.2	12	1.0	0.4
	0.7	153	3.9	3.9	4.0	13.2	13	13.3	1004.00
	300	103	305	100	317	171	312	C01	1004.00
Prefer to buy Hvv IS from:	In percent		10.0		50.0		10.0		
Market	19	12.4	10.8	15.5	53.9	39.2	46.8	55.8	32.4
NGO	4.9	2	1.6	1.9	3.2	17.5	3.8	0	4.1
Pharmacy	24.8	27.5	40	29	24	22.8	26.9	18.8	27.3
Household Ware Shop	4.9	11.8	11.5	9	0	0.6	1	0.6	4.6
Water Kiosk	5.6	7.2	12.5	15.5	0.9	2.3	1.3	3	5.6
CBO door to door	15	16.3	17.7	24.5	6.6	7.6	2.9	1.8	11.1
Supermarket	16.3	18.3	6.6	5.8	1.6	4.1	1.6	0.6	6.6
Small shop	22.5	23.5	17.7	11	18.6	.31	41.3	27.7	24.5
MEL	0	0	0	0	0.3	0	0.6	1 8	0.3
Other	07	0	0	0 A 0	1 0	1 9	1	0.1	0.0
N	0.7	0	0	0.0	1.9	1.0	1	0.0	1924
IN									1034

		only one							
What would you purchase with		answer							
2000 KSH	in percent	possible!							
Radio	5.6	6.3	3.7	9.5	3.2	0.6	1.9	1.2	3.8
Chicken	12.6	16.2	6.7	5.4	7.3	1.8	3.8	3.6	7.1
Mobile Phone	10.2	5.6	9.8	7.5	2.2	0.6	1.3	1.2	5.0
Water Filter	12.3	17.6	20.5	19	2.2	2.4	2.2	0.6	9.2
Goat	20.4	28.2	15.5	8.8	20.3	22.9	21.2	18.8	19.5
Food	31.9	21.8	27.9	36.7	18	25.9	23.1	27.3	26.0
Clothes	6.3	4.2	9.4	9.5	1.9	1.2	1	0.6	4.3
School Fees	0.7	0	4.4	2.7	19.3	11.8	19.2	18.2	10.4
Start own business	0	0	0	0	2.2	2.4	1.3	1.8	1
Ruy bougebold goods	0	0	0.3	0.7	4.1	4.1	0.4	0.1	2.8
Buy nousenoid goods	206	152	205	0.7	19.3	20.3	10.0	20.0	11.1
Willingness to pay for filters	300	100	303	155	510	170	512	105	
0-500 ksh	41 9	50.3	41.4	52.9	63.8	52.4	55.4	52.7	51.2
500-1000 ksh	31.3	21.4	23.4	28.4	23.3	35.9	31.4	33.3	28.3
1000-1500 ksh	15.5	13.1	13.2	6.5	10.4	6.5	7.1	8.5	10.4
1500-2000 ksh	6.9	13.1	10.5	6.5	1.3	4.1	5.1	4.2	6.2
2000-2500 ksh	1	2.1	8.2	1.9	0.6	1.2	1	1.2	2.2
2500-3000 ksh	2.7	0	2.3	2.6	0.3	0	0	0	1.2
3000-3500 ksh	0.7	0	1	0.6	0.3	0	0	0	0.4
> 3500 ksh	0	0	0	0.6	0.6	0	0	0	0.2
		x ² (1)=4.175				x ² (1)=12.697		x ² (1)=9.071	x ² (1)=5.805
HWTS use vs Turbidity		p=0.041				p=0.000		p=0.003	p=0.016
					x ² (1)=14.276		x ² (1)=9.678		x ² (1)=13.040
HWTS use vs Source Rainwater					p=0.000		p=0.002		p=0.000
						x ² (1)=4.031			
HWTS use vs Source Shallow well						p=0.045			
						x ² (1)=12.739			
HWTS use vs River, Open well						p=0.000			
· · ·						-	x ² (1)=5.119		
HWTS use vs Pond							p=0.024		
							$x^{2}(7) = 18.835$		$x^{2}(7)=14.22$
HWTS use vs Occupation							p=0.009		p=0.047
				$x^{2}(1)=15.785$			1		$x^{2}(1)=10.08$
HWTS use vs Gender				p=0.000					p=0.002
HWTS use vs	$x^{2}(1)=26.516$	$x^{2}(1)=27.370$	$x^{2}(1)=43.819$	$x^{2}(1)=9.362$	$x^{2}(1) = 93700$	$x^{2}(1)=61.784$	$x^{2}(1)=62.532$	$x^{2}(1)=40.611$	$x^{2}(1)=361.721$
Knowledge on HWTS	p=0.000	p=0.000	p=0.000	p=0.002	p=0.000	p=0.000	p=0.000	p=0.000	p=0.000
HWTS use vs Importance of	$x^{2}(4) = 72 \ 134$	$x^{2}(4) = 9404$	$x^{2}(2) = 33200$	$x^{2}(3) = 17905$	$x^{2}(4) = 57.361$	$x^{2}(4) = 46.830$	$x^{2}(4) = 55.488$	$x^{2}(4) = 27.201$	$x^{2}(4) = 237554$
treating drinking water	p=0.000	p=0.052	p=0.000	p=0.000	p=0.000	p=0.000	p=0.000	p=0.000	p=0.000
HWTS use vs drinking raw water	$x^{2}(6) = 30.419$	$x^{2}(6) = 16.019$	$x^{2}(6) = 26.747$	$x^{2}(4) = 21.333$	$x^{2}(6) = 58.547$	$x^{2}(6) = 31.987$	$x^{2}(5) = 81.519$	$x^{2}(5)=32.067$	$x^{2}(6) = 232.371$
is good for health	n=0.000	n=0.014	n=0.000	n=0.000	n=0.000	n=0.000	n=0.000	n=0.000	n=0.000
HWTS use vs how many people in	$x^{2}(3)=55.374$	$x^{2}(3)=29.838$	$x^{2}(4)=29.277$	$x^{2}(4)=39.137$	$x^{2}(3)=14.504$	$x^{2}(4)=12.866$	$x^{2}(3)=22.943$	$x^{2}(4)=11.810$	$x^{2}(4) = 184.016$
the area use HWTS	000.0=q	000.0=q	p=0.000	000.0=q	p=0.002	p=0.012	p=0.000	p=0.019	000.0=q
					$x^{2}(1)=14.823$		$x^{2}(1) = 5.395$		$x^{2}(1)=4.785$
HWTS use vs info source radio					p=0.022		p=0.020		p=0.029
	$x^{2}(1)=6.546$						P 010-0		$x^{2}(1)=7.484$
HWTS use vs info source TV	p=0.011								p=0.006
HWTS use vs info source			$x^{2}(1) = 9.781$				$x^{2}(1)=4214$		
ComMeet			p=0.001				p=0.040		
HWTS use vs info source		-	$x^{2}(1)=6.629$		$x^{2}(1)=11.321$		$x^{2}(1)=3.847$		
neighbours			p=0.010		p=0.001		p=0.050		
HW/TS use vs monthly	$x^{2}(6) - 18.155$		p 01010		$x^{2}(6) = 14.823$		$x^{2}(6) = 18.784$		$x^{2}(6) = 34, 138$
expenditure	n = 0.006				n = 0.022		n = 0.005		n = 0.000
experiance	$x^{2}(6) - 12433$	$x^{2}(6) - 10.818$	$x^{2}(6) - 15.930$	$x^{2}(6) - 12618$	$x^{2}(6) - 20.522$	$x^{2}(6) - 16.076$	$x^{2}(6) - 20.649$		$x^{2}(6) - 31,833$
HWTS use vs monthly income	n=0.053	n=0.055	n=0.014	n=0.050	n=0.002	n=0.013	n=0.002	ns	n=0.000
HWTS use vs money available	p=0.000	P-0.000		$x^{2}(5)=29.474$	$x^{2}(5)=23.641$	P-0.010	$x^{2}(5)=22.425$	$x^{2}(5)=16292$	$x^{2}(5) = 46.542$
per week				p=0.000	p=0.000		p=0.000	p=0.006	p=0.000
Frequent use chlorination vs							$x^{2}(3) = 31.000$	$x^{2}(2) = 31.452$	$x^{2}(7) - 45778$
willingness to pay chloring							n = 0.000	n = 0.001	n = 0.000
Frequent use filter vs willingness	$x^{2}(6) = 19.260$				$x^{2}(7) = 114 \ 401$	<u> </u>	p=0.000	P-0.001	$x^{2}(7) = 47.186$
to pay for filter	p=0.004				p=0.000			1	p=0.000
	$x^{2}(\Lambda) = 3\Lambda 2\Lambda F$	$x^{2}(A) = 14.095$	$x^{2}(3) = 12.212$		$x^{2}(5) = 22 \ 1.12$		1	1	$x^{2}(5) = 44.004$
HW/TS use vs handwashing index	n = 0.000	n = 0.005	n = 0.004		n = 0.000			1	n = 0.000
HWTS use vs type of sanitation	p=0.000	p=0.003	P-0.004		p=0.000			+	p=0.000
	mosuy lis								113

Analysis Final Data Kenya, Intervention/Control A = with promotion, B= without promotion 1= Munyu Water Project, 2= Community health workers, 3= CBO's, 4= KWAHO Promoter

Area	1A	1B	2A	2B	3A	3B	4A	4B	All Areas
N	310	154	303	151	299	149	299	145	
in percent									
HWTS use (D15_7)	85.9	85.2	69.3	75.2	81.1	75.3	87.5	94.7	81
HWTS use frequent (D20_all)	62.9	64.9	51.8	51.7	69.9	70.5	73.6	91.7	65
Boiling frequent use	19	18.7	10.9	9.8	9.6	4.7	25.9	27.2	16.1
Chlorination frequent use	37.3	41.9	31	39.9	60.3	60.4	53.1	79.5	48.7
Filter use in percent	0.0 6.1	5.2	12.2	4.0	2.3	3.3	1.3	0.7	4.7
Filter use in pumbers	0.1	5.8	13.3	0.3	2.3	3.3	1.0	2.0	5.5
*PUR_SODIS_Filtration with a cloth	are hardly use	d in project area		10	•		5		100
N OR, CODIC, Planator Maria olo	311	155	303	153	302	150	305	151	1830
in percent									
Know boiling	77.5	85.8	91.7	88.2	90.1	91.3	88.2	90.7	87.5
Know chlorination	81.7	90.3	88.4	94.8	92.1	90.7	85.2	95.4	88.8
Know PUR	32.5	51.6	23.1	30.7	48.7	53.3	32.1	49.7	38.1
Know Filtration with Cloth	16.4	20.6	10.6	16.3	6.3	6.0	4.9	8.3	10.7
Know SODIS	18.6	14.2	27.7	15.0	35.8	16.7	40.0	55.0	28.7
Know Fliter	22.8	20.5	49.5	32.7	39.1	38.0	31.8	51.7	36.2
Does not know nw13	4.0	5.2	5.0	1.5	5.5	2.1	2.3	0.7	2.5
Ν	311	155	303	153	302	150	305	151	1830
in percent									
Water is turbid									
Source Borehole	12.5	3.9	20.1	8.5	0.3	63.3	12.8	0.0	13.9
Source Shallow well	8.7	9.0	30.4	2.0	0.3	9.3	4.9	0.7	9.1
Source Piped	68.5	88.4	0.3	2.6	1.3	4.7	6.2	21.9	22.8
Source River, Open well	12.5	21.3	57.8	87.6	98.0	22.0	82.3	96.7	60.5
Source Water Vendor	14.5	4.5	0.7	2.0	0.3	1.3	0.0	0.0	3.3
Source water Trucking	0.6	1.3	0.7	0.0	0.7	0.0	0.0	0.0	0.4
Source Pond	39.2	8.00	35.6	37.3	5.3	14.0	0.2	0.0	24.1
N	311	155	303	153	302	150	305	1.5	1830
in percent	011	100	000	100	002	100	000	101	1000
Information Health Center	8.7	15.5	15.5	19.6	6.6	6.7	8.2	1.3	10.1
Information CBO	17.0	30.3	18.8	15.0	65.6	49.3	6.2	11.3	26.7
Information Promoter	24.4	21.3	20.5	7.8	30.8	10.7	83.0	87.4	37.0
Information Shop Owner	4.2	14.2	5.3	2.6	1.0	0.7	0.3	0.7	3.3
Information Com. Health Worker	14.5	21.3	33.3	31.4	0.3	0.0	0.7	2.0	12.7
Information Barazza	7.4	5.2	2.6	5.2	0.7	0.7	0.0	0.0	2.7
Infomation Demo in town	1.0	1.3	0.0	0.0	0.7	0.0	0.3	0.0	0.4
Information IV/Radio/Newpaper	2.6	12.3	6.3	3.3	0.3	0.0	0.7	0.7	3.0
Information others	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Received promotion	61.7	60.0	62.4	49 7	91.1	59.3	90.8	94.0	72.8
Did find promotion helpful	58.2	57.4	57.8	49.0	90.4	58.7	89.2	94.0	70.8
Promotion changed behaviour	56.6	54.8	56.1	47.1	79.8	56.7	87.9	93.4	67.7
N	311	155	303	153	302	150	305	151	1830
in percent									
Own VIP latrine	28.9	43.9	15.2	19	11.9	2	7.2	13.9	17.2
Shared VIP latrine	10.6	4.5	5.6	2.6	4.3	6.7	1.6	2.6	5.1
Bushes	0	0	0	0	3	6.7	8.9	6.6	3.1
Own PIT latrine	47.9	42.6	43.2	49.7	52	54	58	57.6	50.5
Shared FTT latillie	311	9	303	20.0	20.0	30.7	24.3	19.2	1830
in percent	011	100	000	100	502	100	000	101	1000
raw water has no impact	0.6	1.3	1.3	1.3	1.0	0.7	2.6	2.6	1.4
raw water causes Typhoid fever	89.4	94.2	91.4	90.8	93.7	96.0	83.9	96.7	91.2
raw water causes Diarrhoea	62.4	51.0	45.9	53.6	78.8	85.3	76.1	85.4	66.7
raw water causes Malaria	11.9	9.7	12.5	5.2	17.2	14.0	16.7	24.5	14.2
raw water causes Cholera	46.3	51.0	44.2	44.4	53.3	55.3	40.3	57.6	48.0
raw water causes Head ache	5.1	3.9	6.9	2.6	2.6	0.7	3.0	4.6	3.9
raw water causes worms	38.9	35.5	28.7	26.1	2.3	0.7	4.3	2.0	17.9
raw water causes Amooba	10.4	9.7	0.0 50 5	4.6	2.6 52.6	1.3	2.3	2.0	1.0
raw water causes Skin diseases	14.5	04.0 7 1	5 A	41.0 2 0	52.0 1 3	0.0	30.7 1 2	01.0	49.0 4 5
N	311	155	303	153	302	150	305	151	1830
in percent									
never wash hands	0	1.3	0.7	0.7	0	0	0.3	1.3	0.4
wash hands before cooking	58.8	44.5	47.9	43.8	65.2	62.7	41	67.5	53.7
wash hands after toilet	78.1	76.8	74.6	80.4	92.4	97.3	89.8	89.4	84.4
wash hands before eating	76.2	73.5	69	76.5	83.4	81.3	68.5	85.4	75.9
wash hands after eating	64.3	49.7	48.5	52.3	62.3	60	42.3	72.2	55.7
wash hands whenever dirty	47.9	54.2	50.2	45.8	31.8	34	25.2	41.7	40.5
Where did you buy Chlorino:	311	155	303	153	302	150	305	151	1830
Market	11 0	12 3	43	33	70.9	71.3	70.5	84.8	40.3
NGO	1.9	1.3	4.3	0	0.3	0	13	04.0	40.3
Pharmacy	20.3	29	15.8	26.8	0	4	2.6	1.3	11.6
Household Ware Shop									
Water Kiosk	5.1	9	7.6	7.8	0	0	1.3	0	3.8
CBO door to door	9.6	5.2	19.1	15	6.3	2	0.7	0.7	7.9
Supermarket	4.8	5.2	6.6	15.7	0	0	0.3	1.3	3.8
Small shop	28.9	28.4	13.5	19	0.7	0	6.6	0.7	12.4
NIF1 Othor	0.6	0	0	0.7	0	0	0	0	0.2
Outer NI	0.6	155	2	1.3	0	150	0.3	0	0.6
Where did you buy your filter:	Percent	105	303	153	302	150	305	151	1630
Market	0.6	19	0	0	0.3	0	0	86	1
NGO	1	0	26	0.7	0.0	0	0.3	0.0	07

Pharmacy	1	0.6	0	0	0	0	0	0	0.2
Household Ware Shop	0	0.0	03	07	0	0	0	0	0.2
Motor Kicole	0	0.0	0.3	0.7	0	0	0	0	0.2
vvater Klosk	3.9	5.2	0.3	0.7	0	0	0	0	1.2
CBO door to door	1.6	0.6	8.3	5.9	0.7	3.3	0	0.7	2.6
Supermarket	0	0	0	0	0.7	0	0	0	0.1
Small shop	0.6	0	0	0	0	0	0	0	0.1
MFI	0.3	0	0	0	0.3	0	0	0	0.1
Other	0	0	1	0	0.7	0	1	0	0.4
I do have a filter	83	8.4	12.5	78	2	33	1.6	03	6.2
	0.0	0.4	12.3	1.0	2	3.3	1.0	9.0	10.2
N	311	155	303	153	302	150	305	151	1830
Where did you buy your filter:	Numbers								
Market	2	3	0	0	1	0	0	13	19
NGO	3	0	8	1	0	0	1	0	13
Pharmacy	3	1	0	0	0	0	0	0	4
Lougehold Ware Chap	0	1	1	1	0	0	0	0	
Household Ware Shop	0	1		1	0	0	0	0	3
Water Klosk	12	8	1	1	0	0	0	0	22
CBO door to door	5	1	25	9	2	5	0	1	48
Supermarket	0	0	0	0	2	0	0	0	2
Small shop	2	0	0	0	0	0	0	0	2
MEL	1	0	0	0	1	0	0	0	2
	1	0	0	0	1	0	0	0	2
Other	0	0	3	0	2	0	3	0	8
Total calcutated	28	14	38	12	8	5	4	14	123
I do have a filter	21	13	38	12	6	5	5	. 14	114
Filter use in numbers	19	9	41	10	7	5	5	4	100
		5			•	•		-	1830
	and the late								1030
	multiple								
What would you buy with 2000	answers								
KSH?	possible!!								
Radio	39	39	3.6	1.3	17	2	23	07	26
Chicken	12 5	10 1	10.0	26	1.1	<u>ک</u>	£.0 6.6	20	2.0
Mobilo Dhana	13.5	10.1	10.2	2.6	4.0	0.7	0.0	3.3	0.0
	11.3	6.5	7.3	4.6	2	2.7	3.3	2	5.3
Water Filter	25.4	25.2	23.4	20.9	15.2	24	12.5	13.2	19.7
Goat	7.4	9.7	6.3	11.1	18.5	19.3	20.7	20.5	13.8
Food	2/1	28.1	3.5 A RC	31 /	22 0	21.2	20.1	20.0	28.0
Clothes	40.0	20.4	30.0	40.4	20.0	<u>د ۱</u>	20	22.0	20.1
Ciotties	10.6	3.2	13.5	12.4	4.3	4.7	3.6	2	1.2
School fees	9.3	9.7	5.6	11.1	28.8	20	20.7	26.5	16.3
Start own business	1.3	0.6	2	2	2.3	3.3	4.3	2.6	2.3
Invest money	51	3.9	53	52	4	73	52	4	5.0
Buy bousehold goods	10.0	16.9	19.9	19.2	32.1	27.3	23.6	22.1	22.1
Buy nousenoid goods	10.9	10.0	10.0	10.3	32.1	21.3	23.0	33.1	ZZ.1
Willingness to pay for filters									1830
0-499 ksh	48.2	34.2	44.2	30.7	59.3	57.3	51.5	49	48.1
500-999 ksh	29.6	36.8	41 3	52.3	36.8	38.7	43.9	47	30.8
1000 1100 koh	20.0	00.0	41.0	45.7	00.0	00.1	+0.0	4	10
1000-1499 KSN	17	22.0	12.5	15.7	3.3	4	3.0	4	10
1500-1999 ksh	4.8	6.6	2	1.3	0.3	0	1	0	2
2000-2499 ksh	0	0	0	0	0	0	0	0	0
2500-2999 ksh	0.3	0	0	0	0	0	0	0	0.1
2000 2000 1011	0.0		0	0	•	0	•	0	0.1
2000 2400 kab	0	0	0	0	0.0	∩	<u>ہ</u>	· · · · ·	0.1
3000-3499 ksh	0	0	0	0	0.3	0	0	0	0.1
3000-3499 ksh > 3500 ksh	0	0	0	0	0.3	0	0	0	0.1
3000-3499 ksh > 3500 ksh	0	0	0	0	0.3	0	0	0	0.1
3000-3499 ksh > 3500 ksh	0	0	$ \frac{0}{0} $ x ² (1)=14.767	$0 \\ 0 \\ x^{2}(1)=11.720$	0.3 0	0	0	0 0	0.1 0 $x^{2}(1)=17.279$
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity	0	0	0 0 x ² (1)=14.767 p=0.000	0 0 x ² (1)=11.720 p=0.000	0.3 0	0	0		0.1 0 $x^{2}(1)=17.279$ p=0.000
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity	0		0 0 x ² (1)=14.767 p=0.000	0 0 x ² (1)=11.720 p=0.000	0.3	0	0		$ \begin{array}{c} 0.1 \\ 0 \\ x^2(1)=17.279 \\ p=0.000 \\ 2(4) 44 207 \end{array} $
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity	0		0 0 x ² (1)=14.767 p=0.000	0 0 x ² (1)=11.720 p=0.000	0.3	0	0		0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply	0	0	0 0 x ² (1)=14.767 p=0.000	0 0 x ² (1)=11.720 p=0.000	0.3	0	0		0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply	0		$ \begin{array}{r} 0 \\ 0 \\ x^{2}(1) = 14.767 \\ p = 0.000 \\ x^{2}(1) = 4.169 \end{array} $	0 0 x ² (1)=11.720 p=0.000	0.3	0 0 x ² (1)=4 348	0		$\begin{array}{c} 0.1 \\ 0 \\ x^{2}(1) = 17.279 \\ p = 0.000 \\ x^{2}(1) = 11.087 \\ p = 0.001 \\ x^{2}(1) = 7.581 \end{array}$
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply	0	0	$ \begin{array}{r} 0 \\ 0 \\ x^{2}(1) = 14.767 \\ p = 0.000 \\ x^{2}(1) = 4.169 \\ p = 0.011 \\ x^{2}(1) = 4.169 \\ x^{2}(1) = 4.169 \\ x^{2}(1) = 4.169 \\ $	0 0 x ² (1)=11.720 p=0.000	0.3	0 0 x ² (1)=4.348	0		$\begin{array}{c} 0.1 \\ 0 \\ \hline \\ x^2(1)=17.279 \\ p=0.000 \\ x^2(1)=11.087 \\ p=0.001 \\ x^2(1)=7.581 \\ r=0.006 \end{array}$
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater	0	0	$\begin{array}{c} 0\\ 0\\ x^2(1)=14.767\\ p=0.000\\ x^2(1)=4.169\\ p=0.041 \end{array}$	0 0 x ² (1)=11.720 p=0.000	0.3	0 0 x ² (1)=4.348 p=0.037	000000000000000000000000000000000000000		0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001 x ² (1)=7.581 p=0.006
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater	0		0 0 x ² (1)=14.767 p=0.000 x ² (1)=4.169 p=0.041	0 0 x ² (1)=11.720 p=0.000	0.3	0 0 x ² (1)=4.348 p=0.037	0		0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001 x ² (1)=7.581 p=0.006
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater HWTS use vs Source Shallow well	0	0	$\begin{array}{r} & 0 \\ & 0 \\ \\ x^2(1) = 14.767 \\ p = 0.000 \\ \\ x^2(1) = 4.169 \\ p = 0.041 \end{array}$	0 0 x ² (1)=11.720 p=0.000	0.3	0 0 x ² (1)=4.348 p=0.037			0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001 x ² (1)=7.581 p=0.006
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater HWTS use vs Source Shallow well HWTS use vs River. Open well	0		0 0 x ² (1)=14.767 p=0.000 x ² (1)=4.169 p=0.041	0 0 x ² (1)=11.720 p=0.000	0.3	0 0 x ² (1)=4.348 p=0.037	0		0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001 x ² (1)=7.581 p=0.006
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater HWTS use vs Source Shallow well HWTS use vs River, Open well			$\begin{array}{r} 0\\ 0\\ x^{2}(1)=14.767\\ p=0.000\\ x^{2}(1)=4.169\\ p=0.041\\ x^{2}(1)=4.056\end{array}$	0 0 x ² (1)=11.720 p=0.000	0.3	0 0 x ² (1)=4.348 p=0.037			0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001 x ² (1)=7.581 p=0.006
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater HWTS use vs Source Shallow well HWTS use vs River, Open well	0		$\begin{array}{r} & 0 \\ & 0 \\ \\ x^{2}(1) = 14.767 \\ p = 0.000 \\ \\ x^{2}(1) = 4.169 \\ p = 0.041 \\ \\ x^{2}(1) = 4.056 \end{array}$	0 0 x ² (1)=11.720 p=0.000	0.3	0 0 x ² (1)=4.348 p=0.037			0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001 x ² (1)=7.581 p=0.006
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater HWTS use vs Source Shallow well HWTS use vs River, Open well HWTS use vs Pond			0 0 x ² (1)=14.767 p=0.000 x ² (1)=4.169 p=0.041 x ² (1)=4.056 p=0.044	0 0 x ² (1)=11.720 p=0.000	0.3	0 0 x ² (1)=4.348 p=0.037			0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001 x ² (1)=7.581 p=0.006
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater HWTS use vs Source Shallow well HWTS use vs River, Open well HWTS use vs Pond			$\begin{array}{r} & 0 \\ & 0 \\ \\ x^{2}(1) = 14.767 \\ p = 0.000 \\ \\ x^{2}(1) = 4.169 \\ p = 0.041 \\ \\ x^{2}(1) = 4.056 \\ p = 0.044 \\ x^{2}(2) = 14.999 \end{array}$	0 0 x ² (1)=11.720 p=0.000	0.3	0 0 x ² (1)=4.348 p=0.037			0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001 x ² (1)=7.581 p=0.006
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater HWTS use vs Source Shallow well HWTS use vs River, Open well HWTS use vs Pond HWTS use vs Eduction Isout			$\begin{array}{r} & 0 \\ & 0 \\ \\ x^{2}(1) = 14.767 \\ p = 0.000 \\ \\ x^{2}(1) = 4.169 \\ p = 0.041 \\ \\ x^{2}(1) = 4.056 \\ p = 0.044 \\ \\ x^{2}(2) = 14.999 \\ p = 0.001 \end{array}$	0 0 x ² (1)=11.720 p=0.000		0 0 x ² (1)=4.348 p=0.037			0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001 x ² (1)=7.581 p=0.006 x ² (3)=22.576 n=0.000
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater HWTS use vs Source Shallow well HWTS use vs River, Open well HWTS use vs Pond HWTS use vs Eduction level			0 0 x ² (1)=14.767 p=0.000 x ² (1)=4.169 p=0.041 x ² (1)=4.056 p=0.044 x ² (2)=14.999 p=0.001	0 0 x ² (1)=11.720 p=0.000		0 0 x ² (1)=4.348 p=0.037			0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001 x ² (1)=7.581 p=0.006 x ² (3)=22.576 p=0.000
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater HWTS use vs Source Shallow well HWTS use vs River, Open well HWTS use vs Pond HWTS use vs Eduction level HWTS use vs Gender			$\begin{array}{r} & 0 \\ & 0 \\ \\ x^2(1) = 14.767 \\ p = 0.000 \\ \\ x^2(1) = 4.169 \\ p = 0.041 \\ \\ x^2(1) = 4.056 \\ p = 0.044 \\ x^2(2) = 14.999 \\ p = 0.001 \end{array}$	0 0 x ² (1)=11.720 p=0.000		0 0 x ² (1)=4.348 p=0.037			0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001 x ² (1)=7.581 p=0.006 x ² (3)=22.576 p=0.000 ns
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater HWTS use vs Source Shallow well HWTS use vs River, Open well HWTS use vs Pond HWTS use vs Pond HWTS use vs Gender HWTS use vs Gender HWTS use vs			$\begin{array}{c} 0\\ 0\\ x^{2}(1)=14.767\\ p=0.000\\ x^{2}(1)=4.169\\ p=0.041\\ x^{2}(1)=4.056\\ p=0.044\\ x^{2}(2)=14.999\\ p=0.001\\ \end{array}$	0 0 x ² (1)=11.720 p=0.000		0 0 x ² (1)=4.348 p=0.037			0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001 x ² (1)=7.581 p=0.006 x ² (3)=22.576 p=0.000 ns
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater HWTS use vs Source Shallow well HWTS use vs River, Open well HWTS use vs Pond HWTS use vs Pond HWTS use vs Gender HWTS use vs Knowledge on HWTS	0 0		$\begin{array}{r} & 0 \\ & 0 \\ \hline & 0 \\ x^2(1) = 14.767 \\ p = 0.000 \\ \hline & x^2(1) = 4.169 \\ p = 0.041 \\ \hline & x^2(1) = 4.056 \\ p = 0.044 \\ x^2(2) = 14.999 \\ p = 0.001 \\ \hline \end{array}$	0 0 x ² (1)=11.720 p=0.000		0 0 x ² (1)=4.348 p=0.037			0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001 x ² (1)=7.581 p=0.006 x ² (3)=22.576 p=0.000 ns
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater HWTS use vs Source Shallow well HWTS use vs River, Open well HWTS use vs Pond HWTS use vs Pond HWTS use vs Gender HWTS use vs Gender HWTS use vs Knowledge on HWTS HWTS HWTS HEALT	0 0	0 0	$\begin{array}{r} 0\\ 0\\ x^{2}(1)=14.767\\ p=0.000\\ x^{2}(1)=4.169\\ p=0.041\\ x^{2}(1)=4.056\\ p=0.044\\ x^{2}(2)=14.999\\ p=0.001\\ x^{2}(3)=71.364\\ \end{array}$	0 0 x ² (1)=11.720 p=0.000	0.3 0	0 0 x ² (1)=4.348 p=0.037 x ² (3)=17.613	0 0	v ² (2)_45 053	0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001 x ² (1)=7.581 p=0.006 x ² (3)=22.576 p=0.000 ns
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater HWTS use vs Source Shallow well HWTS use vs River, Open well HWTS use vs Pond HWTS use vs Pond HWTS use vs Gender HWTS use vs Gender HWTS use vs Importance of HWTS use vs Importance of	0 0	0 0 0 x ² (4)=36.325	0 0 x ² (1)=14.767 p=0.000 x ² (1)=4.169 p=0.041 x ² (1)=4.056 p=0.044 x ² (2)=14.999 p=0.001 x ² (3)=71.364	0 0 x ² (1)=11.720 p=0.000 x ² (2)=28.216	0.3 0 	0 0 x ² (1)=4.348 p=0.037 x ² (3)=17.613	0 0 0 x ² (3)=27.316	x ² (2)=45.953	0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001 x ² (1)=7.581 p=0.006 x ² (3)=22.576 p=0.000 ns
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater HWTS use vs Source Shallow well HWTS use vs River, Open well HWTS use vs Pond HWTS use vs Cender HWTS use vs Gender HWTS use vs Knowledge on HWTS HWTS use vs Importance of treating drinking water	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 x ² (4)=36.325 p=0.000	$\begin{array}{r} & 0\\ & 0\\ & 0\\ \\ x^2(1)=14.767\\ p=0.000\\ \\ x^2(1)=4.056\\ p=0.041\\ \\ \hline x^2(1)=4.056\\ p=0.044\\ x^2(2)=14.999\\ p=0.001\\ \\ \hline x^2(3)=71.364\\ p=0.000\\ \end{array}$	0 0 x ² (1)=11.720 p=0.000 x ² (2)=28.216 p=0.000	0.3 0 x ² (3)=80.349 p=0.000	0 0 x ² (1)=4.348 p=0.037 x ² (3)=17.613 p=0.001	0 0 x ² (3)=27.316 p=0.000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001 x ² (1)=7.581 p=0.006 x ² (3)=22.576 p=0.000 ns x ² (4)=355.676 p=0.000
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater HWTS use vs Source Shallow well HWTS use vs River, Open well HWTS use vs Pond HWTS use vs Pond HWTS use vs Gender HWTS use vs Gender HWTS use vs Minortance of treating drinking water HWTS use vs drinking raw water	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 x ² (4)=36.325 p=0.000	$\begin{array}{r} & 0\\ & 0\\ & 0\\ & \\ & \\ & \\ & \\ & \\ & \\ $	0 0 x ² (1)=11.720 p=0.000 x ² (2)=28.216 p=0.000 x ² (3)=9.551	0.3 0 x ² (3)=80.349 p=0.000 x ² (6)=20.828	0 0 x ² (1)=4.348 p=0.037 x ² (3)=17.613 p=0.001 x ² (5)=17.057	0 0 x ² (3)=27.316 p=0.000 x ² (6)=26.945	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001 x ² (1)=7.581 p=0.006 x ² (3)=22.576 p=0.000 ns x ² (4)=355.676 p=0.000 x ² (6)=88.429
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater HWTS use vs Source Shallow well HWTS use vs River, Open well HWTS use vs River, Open well HWTS use vs River, Open well HWTS use vs Gender HWTS use vs Gender HWTS use vs Gender HWTS use vs Importance of treating drinking water HWTS use vs drinking raw water is good for health	0 0 0	0 0 0 x ² (4)=36.325 p=0.000	$\begin{array}{r} & 0 \\ & 0 \\ \\ x^{2}(1)=14.767 \\ p=0.000 \\ \\ x^{2}(1)=4.169 \\ p=0.041 \\ \\ x^{2}(1)=4.056 \\ p=0.044 \\ x^{2}(2)=14.999 \\ p=0.001 \\ \\ x^{2}(3)=71.364 \\ p=0.000 \\ x^{2}(3)=16.563 \\ p=0.001 \\ \end{array}$	0 0 x ² (1)=11.720 p=0.000 x ² (2)=28.216 p=0.000 x ² (3)=9.551 p=0.023	0.3 0 x ² (3)=80.349 p=0.000 x ² (6)=20.828 p=0.002	0 0 x ² (1)=4.348 p=0.037 x ² (3)=17.613 p=0.001 x ² (5)=17.057 p=0.004	0 0 0 x ² (3)=27.316 p=0.000 x ² (6)=26.945 p=0.000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001 x ² (1)=7.581 p=0.006 x ² (3)=22.576 p=0.000 ns x ² (4)=355.676 p=0.000 x ² (6)=88.429 p=0.000
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater HWTS use vs Source Shallow well HWTS use vs River, Open well HWTS use vs Pond HWTS use vs Eduction level HWTS use vs Gender HWTS use vs Gender HWTS use vs Importance of treating drinking water HWTS use vs drinking raw water is good for health	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 x ² (4)=36.325 p=0.000	$\begin{array}{r} & 0\\ & 0\\ & 0\\ \\ x^{2}(1)=14.767\\ p=0.000\\ \\ x^{2}(1)=4.056\\ p=0.041\\ \\ x^{2}(2)=14.999\\ p=0.001\\ \\ x^{2}(3)=71.364\\ p=0.000\\ x^{2}(3)=16.563\\ p=0.001\\ \\ x^{2}(4)=16.563\\ p=0.001\\ \\ x^{2}(4)=$	0 0 x ² (1)=11.720 p=0.000 x ² (2)=28.216 p=0.000 x ² (3)=9.551 p=0.023	0.3 0 x ² (3)=80.349 p=0.000 x ² (6)=20.828 p=0.002 2 ² (r)=0.040	0 0 x ² (1)=4.348 p=0.037 x ² (3)=17.613 p=0.001 x ² (5)=17.057 p=0.004 x ² (1)=4.024	0 0 x ² (3)=27.316 p=0.000 x ² (6)=26.945 p=0.000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001 x ² (1)=7.581 p=0.006 x ² (3)=22.576 p=0.000 ns x ² (4)=355.676 p=0.000 x ² (6)=88.429 p=0.000 x ² (6)=88.429 p=0.000
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater HWTS use vs Source Shallow well HWTS use vs River, Open well HWTS use vs Pond HWTS use vs Pond HWTS use vs Gender HWTS use vs Gender HWTS use vs Mportance of treating drinking water HWTS use vs drinking raw water is good for health HWTS use vs how many people in	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 x ² (4)=36.325 p=0.000 x ² (5)=11.079	$\begin{array}{r} & 0\\ & 0\\ & 0\\ \\ x^2(1)=14.767\\ p=0.000\\ \\ x^2(1)=4.169\\ p=0.041\\ \\ x^2(1)=4.056\\ p=0.044\\ x^2(2)=14.999\\ p=0.001\\ \\ x^2(3)=71.364\\ p=0.000\\ x^2(3)=16.563\\ p=0.001\\ x^2(4)=17.901\\ \end{array}$	0 0 x ² (1)=11.720 p=0.000 x ² (2)=28.216 p=0.000 x ² (3)=9.551 p=0.023	0.3 0 x ² (3)=80.349 p=0.000 x ² (6)=20.828 p=0.002 x ² (5)=63.640	0 0 x ² (1)=4.348 p=0.037 x ² (3)=17.613 p=0.001 x ² (5)=17.057 p=0.004 x ² (4)=21.024	0 0 x ² (3)=27.316 p=0.000 x ² (6)=26.945 p=0.000 x ² (5)=33.353	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001 x ² (1)=7.581 p=0.006 x ² (3)=22.576 p=0.000 ns x ² (4)=355.676 p=0.000 x ² (6)=88.429 p=0.000 x ² (5)=162.067
3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater HWTS use vs Source Shallow well HWTS use vs River, Open well HWTS use vs River, Open well HWTS use vs Pond HWTS use vs Pond HWTS use vs Gender HWTS use vs Gender HWTS use vs Importance of treating drinking water HWTS use vs drinking raw water is good for health HWTS use vs how many people in the area use HWTS	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 x ² (4)=36.325 p=0.000 x ² (5)=11.079 p=0.050	$\begin{array}{r} & 0 \\ & 0 \\ \\ & 0 \\ \\ & x^{2}(1) = 14.767 \\ & p = 0.000 \\ \\ & x^{2}(1) = 4.169 \\ & p = 0.041 \\ \\ & x^{2}(1) = 4.056 \\ & p = 0.041 \\ \\ & x^{2}(2) = 14.999 \\ & p = 0.001 \\ \\ & x^{2}(3) = 71.364 \\ & p = 0.000 \\ \\ & x^{2}(3) = 16.563 \\ & p = 0.001 \\ \\ & x^{2}(4) = 17.901 \\ & p = 0.001 \end{array}$	0 0 x ² (1)=11.720 p=0.000 x ² (2)=28.216 p=0.000 x ² (3)=9.551 p=0.023	0.3 0 x ² (3)=80.349 p=0.000 x ² (6)=20.828 p=0.002 x ² (5)=63.640 p=0.000	0 0 x ² (1)=4.348 p=0.037 x ² (3)=17.613 p=0.001 x ² (5)=17.057 p=0.004 x ² (4)=21.024 p=0.000	0 0 0 x ² (3)=27.316 p=0.000 x ² (6)=26.945 p=0.000 x ² (5)=33.353 p=0.000	x ² (2)=45.953 p=0.000 x ² (5)=61.101 p=0.000	0.1 0 x ² (1)=17.279 p=0.000 x ² (1)=11.087 p=0.001 x ² (1)=7.581 p=0.006 x ² (3)=22.576 p=0.000 ns x ² (4)=355.676 p=0.000 x ² (6)=88.429 p=0.000 x ² (5)=162.067 p=0.000
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3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater HWTS use vs Source Shallow well HWTS use vs Source Shallow well HWTS use vs River, Open well HWTS use vs Pond HWTS use vs Gender HWTS use vs Gender HWTS use vs Gender HWTS use vs Mportance of treating drinking water HWTS use vs Importance of treating drinking water HWTS use vs how many people in the area use HWTS HWTS use vs how many people in the area use HWTS HWTS use vs info through health center HWTS use vs info through health center HWTS use vs info through people HWTS use vs info through cBO HWTS use vs info through people HWTS use vs info through people HWTS use vs info through theol HWTS use vs info through theol HWTS use vs info through community health worker HWTS use vs info through community meeting HWTS use vs info through TV, radio, newspaper HWTS use vs info through TV, radio, newspaper	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 x ² (4)=36.325 p=0.000 x ² (5)=11.079 p=0.050	$\begin{array}{c} 0\\ 0\\ 0\\ x^{2}(1)=14.767\\ p=0.000\\ x^{2}(1)=4.169\\ p=0.041\\ x^{2}(1)=4.056\\ p=0.044\\ x^{2}(2)=14.999\\ p=0.001\\ x^{2}(2)=14.999\\ p=0.001\\ x^{2}(3)=16.563\\ p=0.001\\ x^{2}(3)=16.563\\ p=0.001\\ x^{2}(1)=8.014\\ p=0.005\\ x^{2}(1)=6.528\\ p=0.011\\ x^{2}(1)=6.528\\ p=0.011\\ x^{2}(1)=4.285\\ p=0.038\\ x^{2}(1)=3.876\\ p=0.049\\ x^{2}(1)=3.876\\ x^{2}(1)=3.8$	0 0 x ² (1)=11.720 p=0.000 x ² (2)=28.216 p=0.000 x ² (3)=9.551 p=0.023 x ² (1)=13.659 p=0.000 x ² (1)=4.400 p=0.036 x ² (1)=6.087 p=0.0014 x ² (1)=3.939 p=0.047	0.3 0 x ² (3)=80.349 p=0.000 x ² (6)=20.828 p=0.002 x ² (5)=63.640 p=0.002 x ² (1)=9.259 p=0.002	0 0 x ² (1)=4.348 p=0.037 x ² (3)=17.613 p=0.001 x ² (5)=17.057 p=0.004 x ² (4)=21.024 p=0.000 x ² (1)=9.405 p=0.002 x ² (1)=7.551 p=0.006	0 0 0 x ² (3)=27.316 p=0.000 x ² (6)=26.945 p=0.000 x ² (5)=33.353 p=0.000 x ² (1)=4.446 p=0.035 x ² (1)=14.145 p=0.000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 0.1\\ 0\\ x^2(1)=17.279\\ p=0.000\\ x^2(1)=11.087\\ p=0.001\\ x^2(1)=7.581\\ p=0.006\\ x^2(3)=22.576\\ p=0.000\\ ns\\ x^2(3)=22.576\\ p=0.000\\ x^2(6)=88.429\\ p=0.000\\ x^2(6)=88.429\\ p=0.000\\ x^2(5)=162.067\\ p=0.000\\ x^2(1)=77.989\\ p=0.000\\ x^2(1)=9.189\\ p=0.000\\ x^2(1)=9.189\\ p=0.002\\ x^2(1)=3.742\\ p=0.000\\ ns\\ ns\\ ns\\ ns\\ ns\\ ns\\ ns\\ ns\\ ns\\ ns$
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3000-3499 ksh > 3500 ksh HWTS use vs Turbidity HWTS use vs Piped water supply HWTS use vs Source Rainwater HWTS use vs Source Shallow well HWTS use vs Source Shallow well HWTS use vs Pond HWTS use vs Pond HWTS use vs Cender HWTS use vs Gender HWTS use vs Gender HWTS use vs Importance of treating drinking water HWTS use vs Importance of treating drinking water HWTS use vs drinking raw water is good for health HWTS use vs how many people in the area use HWTS HWTS use vs how many people in the area use HWTS HWTS use vs info through health center HWTS use vs info through cBO HWTS use vs info through shop owner HWTS use vs info through community health worker HWTS use vs info through community meeting HWTS use vs info through demonstration in town HWTS use vs info through TV, radio, newspaper HWTS use vs info through other HWTS use vs info through oth	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 x ² (4)=36.325 p=0.000 x ² (5)=11.079 p=0.050	$\begin{array}{r} 0\\ 0\\ 0\\ x^{2}(1)=14.767\\ p=0.000\\ x^{2}(1)=4.169\\ p=0.041\\ x^{2}(1)=4.056\\ p=0.044\\ x^{2}(2)=14.999\\ p=0.001\\ x^{2}(3)=16.563\\ p=0.001\\ x^{2}(3)=16.563\\ p=0.001\\ x^{2}(4)=17.901\\ x^{2}(4)=17.901\\ x^{2}(1)=8.014\\ p=0.005\\ x^{2}(1)=6.528\\ p=0.011\\ x^{2}(1)=6.528\\ p=0.011\\ x^{2}(1)=6.528\\ p=0.011\\ x^{2}(1)=4.285\\ p=0.038\\ x^{2}(1)=3.876\\ p=0.049\\ x^{2}(2)=28.513\\ p=0.002\\ x^{2}(2)=28.513\\ p=0.002\\ x^{2}(2)=28.513\\ p=0.002\\ x^{2}(2)=28.513\\ p=0.002\\ x^{2}(2)=28.513\\ x^{2}(2$	0 0 x ² (1)=11.720 p=0.000 x ² (2)=28.216 p=0.000 x ² (3)=9.551 p=0.023 x ² (1)=13.659 p=0.000 x ² (1)=4.400 p=0.036 x ² (1)=4.400 p=0.036 x ² (1)=4.400 p=0.014 x ² (1)=3.939 p=0.047 x ² (2)=17.878 x ² (2)=17.878	0.3 0 x ² (3)=80.349 p=0.000 x ² (6)=20.828 p=0.000 x ² (5)=63.640 p=0.000 x ² (1)=9.259 p=0.002 x ² (1)=9.259 p=0.002	0 0 x ² (1)=4.348 p=0.037 x ² (3)=17.613 p=0.001 x ² (5)=17.057 p=0.004 x ² (4)=21.024 p=0.000 x ² (1)=7.551 p=0.006 x ² (1)=7.551 p=0.006 x ² (2)=9.540 x ² (2)=9.540 x ² (2)=9.540	0 0 0 x ² (3)=27.316 p=0.000 x ² (6)=26.945 p=0.000 x ² (5)=33.353 p=0.000 x ² (1)=4.446 p=0.035 x ² (1)=14.145 p=0.000 x ² (2)=26.550 x ² (2)=26.550	x ² (2)=45.953 p=0.000 x ² (1)=29.231 p=0.000 x ² (1)=29.231 p=0.000 x ² (1)=29.231 p=0.000	$\begin{array}{c} 0.1\\ 0\\ x^2(1)=17.279\\ p=0.000\\ x^2(1)=11.087\\ p=0.001\\ x^2(1)=7.581\\ p=0.006\\ x^2(1)=7.581\\ p=0.000\\ x^2(3)=22.576\\ p=0.000\\ ns\\ x^2(4)=355.676\\ p=0.000\\ x^2(6)=88.429\\ p=0.000\\ x^2(5)=162.067\\ p=0.000\\ x^2(1)=77.989\\ p=0.000\\ x^2(1)=77.989\\ p=0.000\\ x^2(1)=3.742\\ p=0.000\\ ns\\ ns\\ ns\\ ns\\ ns\\ ns\\ ns\\ ns\\ ns\\ ns$

HWTS use vs promotion changed behaviour	x ² (2)=16.287 p=0.000	x ² (2)=10.221 p=0.006	x ² (2)=31.677 p=0.000	x ² (2)=16.953 p=0.000	x ² (2)=138.821 p=0.000	x ² (2)=25.411 p=0.000	x ² (2)=71.713 p=0.000	x ² (2)=48.188 p=0.000	x ² (2)=314.874 p=0.000
HWTS use vs info source radio									
HWTS use vs info source TV									
HWTS use vs info source									
ComMeet									
HWTS use vs info source									
neighbours									
HWTS use vs monthly			x ² (7)=38.438		x ² (6)=22.333				x ² (7)=35.970
expenditure			p=0.000		p=0.001				p=0.000
HWTS use vs monthly income									ns
HWTS use vs money available	x ² (7)=16.692								
per week	p=0.044								ns
Frequent use chlorination vs	x ² (5)=14.273			x ² (2)=6.323			x ² (2)=6.324		x ² (5)=12.384
willingness to pay chlorine	p=0.014			p=0.042			p=0.042		p=0.030
Frequent use filter vs willingness	x ² (4)=15.513		x ² (3)=13.854		x ² (4)=78.589	x ² (2)=8.205	x ² (3)=8.120		$x^{2}(5)=83.575$
to pay for filter	p=0.004		p=0.003		p=0.000	p=0.017	p=0.044		p=0.000
			x ² (4)=13.630	x ² (4)=15.139	x ² (4)=30.538	x ² (4)=15.496	x ² (5)=17.503		x ² (5)=55.341
HWTS use vs handwashing index			p=0.009	p=0.004	p=0.000	p=0.004	p=0.004		p=0.000
×			x ² (3)=9.899				x ² (3)=9.773		x ² (4)=18.529
HWTS use vs type of sanitation			p=0.019				p=0.044		p=0.001

A. Introduction

A01 Introduce yourself !

Please interview the person of the household that is responsible for the water for the family.

Hello, my name is *(name of interviewer)*and I work for*(name of the NGO)*. For the planned project, we make a baseline survey about the distribution condition and practices of HWTS products. We are trying to optimize the access of HWTS products to improve your water quality. It will not take more than 30 minutes to complete the questionnaire.

1

B. General information regarding the interview

B01	Number of questionnaire:
B02	Date of the interview:
B03	Name of the interviewer:

C. Data of the interviewed person

C01	Residential area:	
C02	GPS data:	
C03	Name of the person interviewed:	
C04	Gender of the person:	
C05	Name of the husband:	
C06	Occupation: ¹ None ² Housewife ³ Student ⁴ Retired	 ⁵ □ Agricultural ⁶ □ Self employed ⁷ □ Employed ⁸ □ Other
C07	Number of adults in household:	
C08	Number of children in household:	
C09	Telephone/ Mobile:	

D. Current WASH conditions in the households

D01 What is the current source of drinking water used in the household (multiple choices possible):

- ¹ Deep borehole
- ² Shallow well
- ³ Piped water supply
- ⁴ River, stream or open well
- ⁵ Water vendors
- ⁶ Water trucking
- ⁷ Rain water
- ⁸ D Pond
- D02 How is the quality of the drinking water?
 - ¹ 🛛 Clear
 - ² **D** Turbid
- D03 Which HWTS do you know? (multiple choices possible)
 - ¹ D Boiling
 - ² Chlorination (Aquatabs, Waterguard)
 - ³ Coagulation/Chlorination (PUR)
 - $\frac{4}{2}$ **G** Filtration with a cloth

 - ⁶ G Filter
 - ⁷ None

D04	D05
What kind of method do you use to treat the water?	How often do you use it?
(multiple choices possible)	Dec
	D05 a
	$^{1}\Box$ always
	² □ often
	³ sometimes
	⁴ □ seldom
	⁵ 🗖 never
	D05 b
² Chlorination	
(Waterguard, Aquatabs)	
$^{3}\square$ Coogulation/Chloringtion (PLIP)	
	¹ □ always
	² often
	³ sometimes
	⁴ 🗖 seldom
	⁵ D never
	D05 d
⁴ Filtration with a cloth	
	$^{2}\square$ often
	$^{3}\square$ sometimes
	4 D seldom
	$^{5}\Box$ never
	D05 e
	',□ always
	Seldom
	D05 T
	¹ □ always
	$^{2}\square$ often
	³ Sometimes
	⁴ Seldom
	⁵ D never
⁷ D None	

- Which system do you use the most? $1 \square$ Boiling D06

 - ² Chlorination (Aquatabs, Waterguard)
 ³ Coagulation/Chlorination (PUR)
 - ${}^{4}\Box$ Filtration with a cloth

 - ⁶ D Filter
 - ⁷ None
- Can you show me the system that you are using? D07
 - □ Filter is available and used
 - ² \Box Filter is available and dry
 - ³ Chlorine solution (Waterguard, Aquatabs) is available
 - ⁴ **D** PUR is available
 - ⁵ Filter cloth is available
 - ⁶ SODIS bottles are exposed
 - ⁷ SODIS bottles are available in the house
 - ⁸ System is not visible (Boiling)
 - ⁹ None

Do you like the system/method that you are using the most? D08

- ¹ I dislike it very much
 ² I dislike it
 ³ I neither dislike nor like it
 ⁴ I like it
 ⁵ I like it very much

D09 Which system would you like to use?	D10 Why would you like to use it? (multiple choices possible)
¹ D Boiling	 D10 a ¹ Cheap ² Easy to use ³ Durable ⁴ Water tastes good ⁵ Product looks attractive ⁶ Safe water is treated quickly ⁷ No recurring costs ⁸ Kills Germs
 ² Chlorination (Waterguard, Aquatabs) 	D10 b 1 Cheap 2 Easy to use 3 Durable 4 Water tastes good 5 Product looks attractive 6 Safe water is treated quickly 7 No recurring costs 8 Kills Germs
³ Coagulation/Chlorination (PUR)	 D10 c ¹ Cheap ² Easy to use ³ Durable ⁴ Water tastes good ⁵ Product looks attractive ⁶ Safe water is treated quickly ⁷ No recurring costs ⁸ Kills Germs
⁴ □ Filtration with a cloth	D10 d 1 Cheap 2 Easy to use 3 Durable 4 Water tastes good 5 Product looks attractive 6 Safe water is treated quickly 7 No recurring costs 8 Kills Germs
⁵ SODIS	D10 e 1 Cheap 2 Easy to use 3 Durable 4 Water tastes good 5 Product looks attractive 6 Safe water is treated quickly 7 No recurring costs 8 Kills Germs

⁶ 🗖 Filter	D10 f 1 Cheap 2 Easy to use 3 Durable 4 Water tastes good 5 Product looks attractive 6 Safe water is treated quickly 7 No recurring costs
⁷ D None	<i>D10 g</i> ¹ □ Cost ² □ Not available in the area ³ □ Water is already safe ⁴ □ Like the water as it is

D11	D12
Which system would you not like to use?	Why would you not like to use it?
	D12 a
¹ □ Boiling	 ¹ Expensive ² Difficult to use ³ Not durable ⁴ Water tastes bad ⁵ Product is not attractive ⁶ Takes too much time to treat ⁷ Recurring costs too high ⁸ Does not kills Germs
	D12 b
(Waterguard, Aquatabs)	 Expensive Difficult to use Not durable Water tastes bad Product does not attractive Takes too much time to treat Recurring costs too high Does not kills Germs
	D12 c
³ Coagulation/Chlorination (PUR)	 ¹ Expensive ² Difficult to use ³ Not durable ⁴ Water tastes bad ⁵ Product does not attractive ⁶ Takes too much time to treat ⁷ Recurring costs too high ⁸ Does not kills Germs
	D12 d
□ Filtration with a cloth	 Expensive Difficult to use Not durable Water tastes bad Product does not attractive Takes too much time to treat Recurring costs too high Does not kills Germs

5 □ SODIS	 D12 e ¹ Expensive ² Difficult to use ³ Not durable ⁴ Water tastes bad ⁵ Product does not attractive ⁶ Takes too much time to treat ⁷ Recurring costs too high ⁸ Does not kills Germs
⁶ 🗖 Filter	 D12 f 1 Expensive 2 Difficult to use 3 Not durable 4 Water tastes bad 5 Product does not attractive 6 Takes too much time to treat 7 Recurring costs too high 8 Does not kills Germs

- D13 Do you think it is important to treat your drinking water?
 - ¹ D Not important at all
 - ² Not very important
 - ³ Does not matter
 - ⁴ A bit important
 - ⁵ U Very important
- D14 How many people in this area do you know who are using HWTS?
 - ¹ (Almost) nobody (0%)
 - ² \square Some of them (25%)
 - ³ \square Half of them (50%)
 - ⁴ \square Most of them (75%)
 - ⁵ □ (Almost) all (100%)
- D15 Where do you store your drinking water?
 - ¹ D PET bottles
 - ² **D** 5l jerrycan
 - ³ I 10l jerrycan
 - ⁴ 🛛 201 jerrycan
 - ⁵ **D** 50-100 jerrycan
 - ⁶ I storage tank bigger than 100
 - ⁷ Clay containers
 - ⁸ Other containers
 - ⁹ D None
- D16 Do you clean the water storage containers?
 - ¹ \square never ² \square once a month ³ \square once a week ⁴ \square daily
- D17 How do you clean the water storage containers?
 - $\frac{1}{2}$ **u** rinse with water
 - 2 \Box rinse with water and soap
 - $^{3}\Box$ disinfect with chlorine
 - ⁴ Do not clean the water storage containers
- D18 Do you think that consuming raw water is good or bad for your health?
 - ¹ Uery bad
 - ² 🛛 Bad
 - $^{3}\Box$ Quite bad
 - ⁴ I Neither good nor bad
 - ⁵ Quite good
 - ⁶ Good
 - ⁷ U Very good

- D19 What impacts can untreated drinking water have? (multiple choices possible)
 - ¹ D None
 - ² D Typhoid
 - ³ Diarrhoea
 - ⁴ D Malaria
 - ⁵ Cholera
 - ⁶ **□** Head ache
 - ⁷D Worms
 - ⁸D Diseases (Germs)
 - ⁹ 🖵 Amoeba
 - ¹⁰ D Skin diseases
- D20 What kind of sanitation facility do you use?
 - ¹ Own VIP latrine
 - ² Shared VIP latrine
 - ³ \Box Using the bushes
 - ⁴ Own pit latrine with slab
 - ⁵ Shared pit latrine with slab
- D21 When do you wash your hands? (multiple choices possible)
 - ¹ D Never
 - 2 \square Before preparing the meal
 - ³ After toilet
 - ⁴ Before eating
 - ⁵ After eating
 - ⁶ Whenever they are dirty

E. Current purchasing behaviour of households

- E01 From where do you buy a mobile phone?
 - ¹ D at the market
 - ² Small kiosk
 - ³ \Box in the village in a shop
 - ⁴ in an all purpose household good and hardware shop
 - ⁵ \Box in a big supermarket
- E02 From where do you buy a cooking pan (sufuria)?
 - ¹ **D** at the market
 - ² Small kiosk
 - 3 in the village in a shop
 - ⁴ I in an all purpose household good and hardware shop
 - ⁵ D in a big supermarket
- *E03* From where do you buy a radio?
 - ¹ \square at the market
 - ² I small kiosk
 - ³ \Box in the village in a shop
 - ⁴ in an all purpose household good and hardware shop
 - ⁵ **D** in a big supermarket
- *E04* From where do you buy a TV?
 - ¹ D at the market
 - ² Small kiosk
 - ³ \Box in the village in a shop
 - ⁴ I in an all purpose household good and hardware shop
 - ⁵ **D** in a big supermarket
- *E05* From where do you buy detergent?
 - $\frac{1}{2}$ **D** at the market
 - ² small kiosk
 - $\frac{3}{2}$ in the village in a shop
 - ⁴ I in a all purpose household good and hardware shop
 - ⁵ in a big supermarket

- E06 From where do you buy chlorine products?
 - ¹ **D** at the market
 - ² Small kiosk
 - ³ \Box in the village in a shop
 - ⁴ I in a all purpose household good and hardware shop
 - ⁵ in a big supermarket
 - ⁶ at the chemist/pharmacy
- *E07* From where do you buy soap?
 - $1 \square$ at the market
 - ² 🖵 small kiosk
 - ${}^{3}\Box$ in the village in a shop
 - $\frac{4}{2}$ in a all purpose household good and hardware shop
 - ⁵ in a big supermarket
- E08 From where do you buy air time for your mobile?
 - ¹ \square at the market
 - ² 🖵 small kiosk
 - ${}^{3}\Box$ in the village in a shop
 - ⁴ I in a all purpose household good and hardware shop
 - ⁵ D in a big supermarket

E09 Where would you prefer to buy a household water treatment system? (multiple choice)

- ¹ D Market
- ² G From a NGO
- ³ D Pharmacy
- ⁴ Household ware shop
- ⁵ U Water kiosk
- $\frac{6}{2}$ **C** Community based organisation, which come door to door or have a community mobilisation
- ⁷ Supermarket
- ⁸ Small shops /kiosk
- ⁹ G From a microfinance institute
- ¹⁰ D Others.....

E10 Who in your family decides about buying household goods up to 500 KSH?

- ¹ l husband
- 2 \Box wife
- ³ both
- 4 \Box eldest person in the household
- E11 Who in your family decides about buying household goods of over 500 KSH?
 - ¹ D husband
 - ² 🛛 wife
 - ³ 🗖 both
 - ⁴ D eldest person in the household
- E12 Who in your family decides about buying cooking utensils?
 - ¹ D husband
 - ² u wife
 - ³ D both
 - ⁴ D eldest person in the household
- E13 Who in your family decides about buying food?
 - ¹ **D** husband
 - 2 \Box wife
 - $\frac{3}{4}$ both
 - 4 \Box eldest person in the household
- E14 Who in your family decides about buying electronic goods?
 - ¹ L husband
 - ² u wife
 - ³ 🛛 both
 - ⁴ D eldest person in the household

- E15 Who in your family decides about children education?
 - ¹ L husband
 - ² 🖵 wife
 - ³ 🛛 both
 - ⁴ \Box eldest person in the household
 - ⁵ We do not have children/ Children are not in school ages yet
- E16 How much is your monthly expenditure?
 - ¹ under 3'000 KSH
 - ² 3'000-4'000 KSH
 - ³ 4'000-5'000 KSH
 - ⁴ 🗖 5'000-6'000 KSH
 - ⁵ 🛛 6'000-7'000 KSH
 - ⁶ 🛛 7'000-8'000 KSH
 - ⁷ D More than 8'000 KSH
- *E17* How much is your monthly income?
 - 1 under 3'000 KSH
 - ² 3'000-4'000 KSH
 - ³ 🛛 4'000-5'000 KSH
 - ⁴ 🗖 5'000-6'000 KSH
 - ⁵ 🖬 6'000-7'000 KSH
 - ⁶ 🗖 7'000-8'000 KSH
 - ⁷ D More than 8'000 KSH
- *E18* How much money does your family have available to spend per week?
 - ¹ 100-500 KSH
 - ² 500-1'000 KSH
 - ³ 🗖 1'000-1'500 KSH
 - ⁴ 🗖 1'500-2'000 KSH
 - ⁵ 🛛 2'000-2'500 KSH
 - ⁶ D More than 2'500 KSH
- E19 What would you buy if you would have 2'000 KSH available?
 - ¹ 🛛 Radio
 - ² Chicken
 - ³ D Mobile
 - ⁴ U Water filter
 - ⁵ □ Goat
 - ⁶ 🛛 Food
 - ⁷ 🗖 Cloth
 - ⁸ School fees
 - ⁹ Start own business
 - ¹⁰ D Invest the money
 - ¹¹ D Buy household goods

E20 Sort the pictures according to your value perception:

	Most	Second	Third	Fourth	Fifth	Sixth	Seventh	Eighth	Ninth	Least
	valuable	place	place	place	place	place	place	place	place	valuable
<i>E20a</i> Radio		² □	³ □	⁴ □	5	⁶ □		8	⁹ □	¹⁰ □
<i>E20b</i> TV	1	² □	³ □	⁴ □	⁵ 🗖	⁶ 🗖	7	8	⁹ □	¹⁰ □
E20c Mobile	1	² □	³ □	4	⁵ □	⁶ □	7	8	9	¹⁰
E20d Water filter	1	² □	³ □	4	⁵ 🗖	⁶ 🗖	7	8	⁹ □	¹⁰
<i>E20e</i> Cooking pan (sufuria)	1	² □	³ □	4	⁵ □	⁶ 🗖	7	8	⁹ □	¹⁰
E20f T-shirt	1	² □	³ □	4	5	⁶ □	7	8	9	¹⁰
E20g Chlorine bottle	1	² □	³ □	4	⁵ 🗖	⁶ 🗖	7	8	⁹ 🗖	¹⁰
E20h Jerry can	1	² □	³ □	4	⁵ 🗖	⁶ 🗖	7	8	⁹ □	¹⁰
E20i SODIS		²	3	4	5	6		8	9	¹⁰
E20j Coagulation/ chorination (PUR)	1	² □	³ □	4	5	⁶ □	7	8	⁹ □	¹⁰ □

E21 What would you be willing to pay for?

	0-50 KSH	50-100 KSH	100-150 KSH	150-200 KSH	200-250 KSH	250-300 KSH	300-350 KSH	more than 350 KSH
<i>E21a</i> Chlorine (Aquatabs, Waterguard)	1	² □	³ □	4	5	6	7	8
E21b Coagulation/chlor ination (PUR)	1	² □	3	4	5	6	7	8
E21c SODIS	1	² □	³ □	4	5	⁶	7	8

- E22 What would you be willing to pay for a ceramic filter?
 - ¹ 🛛 0-500 KSH
 - ² 🖸 500-1'000 KSH
 - ³ 1'000-1'500 KSH
 - 4 🛛 1'500-2'000 KSH
 - ⁵ 🛛 2'000-2'500 KSH
 - ⁶ □ 2'500-3'000 KSH
 - 7 🛛 3'000-3'500 KSH
 - ⁸ D More than 3'500 KSH

E23 How much do you pay for the treatment of one case of diarrhoea?

- ¹ 🛛 less than 100 KSH
- ² 100-500 KSH
- ³ **D** 500-1'000 KSH
- ⁴ 🗖 1'000-1'500 KSH
- ⁵ 🗖 1'500-2'000 KSH
- ⁶ 🛛 2'000-2'500 KSH
- ⁷ D More than 2'500 KSH

E24 Through which media do you get information? (multiple choices possible)

- ¹ 🛛 Radio
- ² D Newspaper
- ³ 🛛 TV
- ⁴ Community meetings
- ⁵ Through neighbours

F. Wealth index

F01 Does anyone from your household own any of these items (are functioning)? (multiple choices possible)

- ¹ D Electricity
- ² 🗖 Radio
- ³ 🗖 TV
- ⁴ **D** Mobile phone
- ⁵ D Bicycle
- ⁶ D Motorbike
- ⁷ 🛛 Car
- ⁸ D Fridge
- ⁹ 🛛 Watch

F02 How many of those animals do you have?

	0	1-5	5-10	10-15	15-20	20-25	25-30	30-35	more than 35
F02a Cows	1	² □	³ □	4	⁵ □	⁶ 🗖	7	8	⁹ □
F02b Donkeys	¹	² □	³ 🗖	4	5	⁶ 🗖	7	8	9
F02c Sheep	1	² □	³ □	⁴ 🗖	5	⁶ 🗖	7	8	9
F02d Goats	1	² □	³ □	⁴ □	5	⁶ 🗖	7	8	⁹ □
Fo2e Chickens	1	² □	³ □	4	5	⁶ 🗖	7	8	⁹ □
F02f Pigs	1	²	3	4	5	⁶	7	8	9
F02g Rabits	1	² □	³ □	4	5	⁶ 🗖	7	8	9

F03 What kind of fuel do you use the most for cooking? (multiple choice)

- ¹ D Charcoal with improved stove
- 2 \Box Charcoal with unimproved stove
- ³ Wood with improved stove
- ⁴ Wood with unimproved stove
- ⁵ G Kerosene
- ⁶ 🛛 Gas
- ⁷ D Electricity

Observations (Interviewer)

- F04 What type of walls does the main house have?
 - ¹ Cement/Concrete
 - ² U Wood planks
 - ³ Corrugated iron
 - ⁴ 🛛 Mud
 - ⁵ 🛛 Stone
- F05 What type of roof is it?
 - ¹ D Thatch, straw
 - 2 \square Bricks
 - ³ D Corrugated iron
- F06 What type of floor is it?
 - ¹ Cement/Concrete
 - ² D Floor plates
 - ³ 🗖 Earth
 - ⁴ 🛛 Dung
- FO7 How many rooms does the main house have?
 - ¹ D One
 - ² Two
 - ³ Three
 - ⁴ **G** Four
 - ⁵ D More than five

Section 1. Introduction

1.1 Introduc

[Please introduce yourself. Please interview the person of the household that is responsible for the water for the family.] Hello, my name is (name of interviewer) and I work for (name of the NGO).

1.2 Introduction 2

For the planned project, we're doing a baseline survey about the distribution conditions and practices of HWTS products. We are trying to optimize the access of HWTS products to improve your water quality. It will not take more than 30 minutes to complete the questionnaire.

Section 2. General information regarding the interview

2.1 Number of guestionnaire

	Number of questionnaire.
	Expects a single line text response (required)
2.2	Date of the interview
	Date of the interview.
	Expects a date response (required)
2.3	Name of the interviewer
	Name of the interviewer.
	Expects a single line text response (required)

Section 3. Data of the interviewed person

3.1 Residential area Residential area.

response (required) Γ

3.2 GPS location

Please capture the GPS location.

3.3 Name of the person interviewed

Name of the person interviewed.

3.4 Gender of the person

Gender of the person.

Male [1]

Female [2]

3.5 Age

Age.

Constraints Response must be Greater Than or Equal 'O'

3.6 Name of the spouse

Name of the spouse.

response (required

3.7 Number of adults in household

Number of adults in household.

Constraints Response must be Greater Than or Equal '0'

3.8 Number of children in household Number of children in household.

Constraints Response must be Greater Than or Equal '0'

3.9 Education level of the person inter

Education level of the person interviewed.

Primary [1]

Secondary [2]

College [3]

3.10 Education level of the spouse

Education level of the spouse

Primary [1] Secondary [2]

College [3]

3.11 Telephone mobile

Telephone/ mobile.

Section 4. Current WASH conditions in the households

4.1 Sort the pictures

Sort the pictures according to your value perception

4.2 Rate - radio Radio.

Response must be Greater Than or Equal '1' Response must be Less Than or Equal '10'

4.3 Rate - TV

TV.

Expects a numeric response (required)

Response must be Greater Than or Equal '1 Response must be Less Than or Equal '10'

4.4 Rate - mobile

Mobile. Γ

Constraints Response must be Greater Than or Equal '1' Response must be Less Than or Equal '10'

4.5 Rate - water filter

Water filter.

Response must be Greater Than or Equal '1' Response must be Less Than or Equal '10'

4.6 Rate - cooking pan (sufuria)

Cooking pan (sufuria).

[______ Constraints

Response must be Greater Than or Equal '1 Response must be Less Than or Equal '10'

4.13 Quality of the drinking water

How is the quality of the drinking water?

Clear [1]

Turbid [2]

4.14 Promotion on Water Sanitation and Hygiene

Did you receive any promotion on Water, Sanitation and Hygiene and drinking water treatment methods in the last 10 months?

🗆 Yes [1] □ No [2]

Prerequisites Skip when Promotion on Water Sanitation and Hygiene (4.14) Equals 'No [2]' 4.15 Where you received promotion information

- From whom did you receive a promotion/ information? (multiple choices possible) Health centre [1] Community based organisation [2] Promoter (3) Shop owner [4] Community health worker [5]
 - Barazza [6]

Demonstration in the town [7]

- TV/ radio/ newspaper [8]
- Others [9]

Prerequisites Skip when Promotion on Water Sanitation and Hyglene (4.14) Equals 'No [2]' 4.16 Did you find the promotion helpful

- Did you find the promotion helpful?

🗆 Yes [1] D No [2]

Prerequisites Skip when Promotion on Water Sanitation and Hygiene (4.14) Equals 'No [2]'

4.17 Did promotion change your behaviour

Did the promotion change your behaviour 🗌 Yes [1]

🗆 No [2]

4.18 Water treatment method you know

Which drinking water treatment method do you know? [multiple choices possible]

- Boiling [1]
- Chlorination (Aquatabs, Waterguard) [2]
- Coagulation/ chlorination (PUR) [3] Filtration with a cloth [4]
- SODIS [5]
- Filter [6]
- None [7]

Constraints Response must be Greater Than or Equal "I Response must be Less Than or Equal "10" 4.9 Rate - jerry can Jerry can. Expects a nume ic response (required)

4.7 Rate - T-shirt T-shirt.

4.8 Rate - chlorine bottle

Chlorine bottle.

response (required)

se (required)

Constraints Response must be Greater Than or Equal '1' Response must be Less Than or Equal '10'

Constraints Response must be Greater Than or Equal '1 Response must be Less Than or Equal '10 4.10 Rate - SODIS

SODIS.

Г Constraints Response must be Greater Than or Equal '1' Response must be Less Than or Equal '10'

4.11 Rate - Coagulation chlorination (PUR)

Coagulation/ chlorination (PUR). Constraints Response must be Greater Than or Equal '1' Response must be Less Than or Equal '10'

4.12 Current source of drinking water

What is the current source of drinking water used in the household (multiple choices possible)

Deep borehole [1]

Shallow well [2]

- Piped water supply [3]
- 🗌 River, stream or open well [4]

Water vendors [5

- Water trucking [6] Rain water
- Pond [8]

4.19 Method used to treat water

What kind of method do you use to treat the water? [multiple choices possible]

Boiling [1] Chlorination (Aquatabs, Waterguard) [2]

- Coagulation/ chlorination (PUR) [3]
- Filtration with a cloth [4]
- Filter [6] None [7]

Prerequisites Skip when Method used to treat water (4.19) Excludes 'Boiling [1]'

4.20 Boiling method

How often do you use the boiling method?

- Always [1]
- Often [2]
- Sometimes [3]
- Seldom [4] Never [5]

Prerequisites Skip when Method used to treat water (4.19) Excludes 'Chlorination (Aquatabs, Watergu

4.21 Chlorination method

- How often do you use the chlorination method?
- Always [1]
- Often [2] Sometimes [3]
- Seldom [4]
- Never (5)

Prerequisites Skip when Method used to treat water (4.19) Excludes 'Coagulation/ chlorination (PUR) [3]'

4.22 Coagulation chlorination method

- How often do you use the coagulation/ chlorination method?
- Always [1]
- 🗌 Often [2]
- Sometimes [3]
- Seldom [4] Never [5]

4.23 Filtration with a cloth method

- How often do you use the filtration with a cloth method?
- Always [1]
- Often [2] C Sometimes
- Seldom [4]
- Never [5]

Prerequisites Skip when Method used to treat water (4.19) Excludes 'SODIS [5]'

4.24 SODIS method

How often do you use the SODIS method?

Always [1] Often [2]

- Sometimes [3] Seldom [4]
- Never [5]

Prerequisites ed to treat water (4.19) Excludes 'Filter [6]

4.25 Filter method

- How often do you use the filter method?
- Always [1]
- Often [2] Sometimes [3]
- Seldom [4]
- Never 151

4.26 System used the most

Which system do you use the most?

Boiling [1]

- Chlorination (Aquatabs, Waterguard) [2] Coagulation/ chlorination (PUR) [3]
- Filtration with a cloth [4]

- Filter [6]
- None [

4.27 Show system used

- Can you show me the system that you are using the most? (only one option)
- Filter is available and used []
- Filter is available and dry [2]
- Chlorine solution (Waterguard, Aquatabs) is available [3]
- D PUR is available [4]
- Filter cloth is available [5
- SODIS bottles are exposed (A
- SODIS bottles are available in the house [7] □ System is not visible (boiling) [8]
- None (a)

4.28 Do you like method used most

Do you like the system/method that you are using the most?

- I dislike it very much [1]
- I dislike it [2]
- 🗌 I neither dislike nor like it 🖂
- 🔲 I like it [4]
- I like it very much [5]

4.29 System you like to use

Which system do you like to use? [multiple choices possible]

- Boiling [1] Chlorination (Aquatabs, Waterguard) [2]
- Coagulation/ chlorination (PUR)
- Filtration with a cloth [4]
- SODIS [5]
- Filter [6]
- None [7

Prerequisites Skip when System you

4.30 Reasons - boiling

Why do you like to use the boiling method? [multiple choices possible]

like to use (4.29) Excludes 'SODIS [5]'

Why do you like to use the SODIS method? [multiple choices possible]

- Cheap [1] Easy to use [2]
- Durable [3]
- Water tastes good [4]
- Product looks attractive [5
- Safe water is treated quickly [6]
- No recurring costs [7] Kills germs [8]

Prerequisites

Cheap [1]

Easy to use [2]

Durable [3]

4.35 Reasons - filter

Cheap [1]

Easy to use [2] Durable [3]

Water tastes good [4

□ No recurring costs [

🗌 Kills germs [8]

4.36 Reasons - None

Cost [1]

Not available in the area [2]

Water is already safe [3]

Like the water as it is [4]

4.37 System you do not like to use

Boiling [1]

Product looks attractive [5

Safe water is treated quickly [6]

Prerequisites Skip when System you like to use (4.29) Excludes 'None [7]'

Why don't you like to use any of the methods? [multiple choices possible]

Which system do you not like to use? [multiple choices possible]

Chlorination (Aquatabs, Waterguard) [2] Coagulation/ chlorination (PUR) [3] Filtration with a cloth [4] Filter [6]

Water tastes good [4]

No recurring costs [7] Kills germs [8]

Product looks attractive [5

🗌 Safe water is treated quickly [6]

Prerequisites Skip when System you like to use (4.29) Excludes 'Filter [6]'

Why do you like to use the filter method? [multiple choices possible]

4.34 Reasons - SODIS

Prerequisites Skip when System you like to use (4.29) Excludes

4.31 Reasons - chlorination (Waterguard Aquatabs)

Why do you like to use the chlorination (Waterguard, Aquatabs) method? [multiple choices possible]

- Cheap [1]
- Easy to use [2]
- Durable [3]
- Water tastes good [4]
- Product looks attractive
- Safe water is treated quickly [6]
- No recurring costs [7] Kills germs [8]

Prerequisites Skip when System you like to use (4.29) Exc 4.32 Reasons - coagulation chlorination (PUR)

Why do you like to use the coagulation/ chlorination (PUR) method? [multiple choices possible]

- Cheap [1] Easy to use [2] Durable [3] Water tastes good [4 Product looks attractive [5]
- Safe water is treated quickly [6]
- □ No recurring costs [7 🗌 Kills germs [8]

Prerequisites Skip when System you like to use (4.29) Excludes 'Filtration with a cloth [4]'

4.33 Reasons - Filtration with a cloth

Why do you like to use the filtration with a cloth method? [multiple choices possible]

- Cheap [1]
- Easy to use [2
- Durable [3]
- U Water tastes good [4
- Product looks attractive
- Safe water is treated quickly [6] Kills germs
- No recurring costs [7]

4.38 Not liked - boiling

- Why don't you like to use the boiling method? [multiple choices possible]
- Expensive [1] Difficult to use [2
- 🗆 Not durable [3]
- Water tastes bad [4]
- Product is not attractive [5] Takes too much time to treat
- Recurring costs too high [7]
- Does not kills germs [8]

Prerequisites Skip when System you do not like to use (4.37) Excludes 'Chlorination (Aquatabs, Waterguard) [2]'

4.39 Not liked - Chlorination - Waterguard Aquatabs

Why don't you like to use the chlorination (Waterguard, Aquatabs) method? [multiple choices possible]

- Expensive [1]
- Difficult to use [2]
- Not durable [3]
- Water tastes bad [4]
- Product is not attractive [5]
- Takes too much time to treat Recurring costs too high [7]
- Does not kills germs [8]

Prerequisites Skip when System you do not like to use (4.37) Excludes 'Coagi

- 4.40 Not liked coagulation chlorination PUR
 - Why don't you like to use the coagulation/chlorination (PUR) method? [multiple choices possible]

ation (PUR) [3]

- Expensive [1
- Difficult to use [2]
- Not durable [3]
- Water tastes bad
- Product is not attractive [5]
- Takes too much time to treat [6 Recurring costs too high [7]
- Does not kills germs

4.45 N ng drinking water t

- How many of your neighbours are using a drinking water treatment method?
- (Almost) nobody (0 percent)
- Some of them (25 percent)
- Half of them (50 percent) [3] Most of them (75 percent) [4
- (Almost) all (100 percent) [5]

4.46 Drinking water storage

- Where do you store your drinking water?
- PET bottles1
- 51 jerrycan [2
- 🗆 101 jerrycan 🛛
- 🗌 201 jerrycan 🖂
- 🗌 50 1001 jerrycan [5]
- Storage tank bigger than 1001 [6]
- Clay containers
- C Other containers [8]
- None [9

4.47 Water storage container cleaning

- Do you clean the water storage containers? Never [1]
- Once a month [2]
- Once a week [3]
- Daily [4]

4.48 How you clean water storage containers

- How do you clean the water storage containers?
- Rinse with water
- Rinse with water and soap
- Disinfect with chlorine [3]
- Do not clean the water storage containers [4

4.49 Is untreated water good or bad for your health

- Do you think that consuming untreated water is good or bad for your health? Very bad [1] 🗌 Bad [2] Ouite bad (3) Neither good nor bad [4] Quite good [5] Good [6]
- Very good [7]

do not like to use (4.37) Excludes 'Filtration with a cloth [4]

4.41 Not liked - filtration with a cloth

- Why don't you like to use the method of filtration with a cloth? [multiple choices possible]
- Expensive [1]
- Difficult to use [2] 🗆 Not durable [3]
- Water tastes bad [4
- Product is not attractive [5]
- Takes too much time to treat
- Recurring costs too high
- Does not kills germs [8]

do not like to use (4.37) Excludes 'SODIS [5]' 4.42 Not liked - SODIS

Why don't you like to use the SODIS method? [multiple choices possible]

- Expensive [1]
- Difficult to use [2]
- Not durable [3]
- Water tastes bad (4)
- Product is not attractive [5]
- Takes too much time to treat [6] Recurring costs too high [7]
- Does not kills germs [8]

Prerequisites Skip when System you do not like to use (4.37) Excludes 'Filter [6]'

4.43 Not liked - filter

Why don't you like to use the filter method? [multiple choices possible]

- Expensive [1]
- Difficult to use [2]
- Not durable [3]
- Water tastes bad
- Product is not attractive [5]
- Takes too much time to treat [6]
- Recurring costs too high [7
- Does not kills germs [8

4.44 Importance of treating your drinking water

🗆 Not important at all [1 Not very important [2] Does not matter [3] 🗌 A bit important [4 Very important [5]

4.50 Impacts of untreated drin

None [1 Typhoid [2]

Diarrhoea [3]

🗆 Malaria [4

Cholera [5] Head ache [6]

Worms [7]

Diseases (germs) [8] Amoeba [5

What kind of sanitation facility do you use?

When do you wash your hands? [multiple choices possible]

Skin diseases (10

Own VIP latrine [1]

Shared VIP latrine

Using the bushes [3]

🗌 Own pit latrine [4 Shared pit latrine [5

4.52 When do you wash your hands

Before preparing the meal [2]

🗌 Whenever they are dirty [6]

Never [1]

After toilet [3] Before eating [4

After eating [5]

4.51 Sanitation facility used

Do you think it is important to treat your drinking water?

What impacts can untreated drinking water have? [multiple choices possible]

Section 5. Current purchasing behaviour of households

5.1 Where you buy or get your chlorine products

- Where do you buy or get your chlorine products?
- At the market [1]
- From an NGO [2]
- Pharmacy [3]
- Water kiosk [4]
- Community based organisation, which come door to door or have a community mobilisation [5]
- Supermarket [6]
 Small shops/ klosk [7]
- Small shops/ kiosk [7]

 From a microfinance institute [8]
- Do not have any [9]
- Others [10]

Prerequisites Skip when Where you buy or get your chloring products (5.1) Excludes 'Others [10]'

- 5.2 Where you get your chlorine products Other
 - Please specify:
 - Expects a single line text response (required)

5.3 Where you buy or get your filter products Where did you buy your filter?

- Expect subjects distinct (required)

 At the market [1]
 From an X00 [2]
 Hoarmacy [2]
 Gonarady [2]
 Gonarady [2]
 Gonarady [4]
 Gonarady [4]
- Do not have one [10]

Others [11]

Prerequisites Skip when Where you buy or get your filter products (5.3) Excludes 'Others [11]'

5.4 Where you get your filter - Other

Please specify:

0	Who decides - household goods over	500	кзн

- Who in your family decides about buying household goods of over 500 KSH?
- Husband [1]
- Wife [2]
- Both [3]
- Eldest person in the household [4]
- Other [5]

5.11 Who decides - food

Who in	your	family	decides	about	buying	food?
				se (rea	uired)	

- Husband [1]
- 🗌 Wife [2]
- Both [3]
- Eldest person in the household [4]
 Other [5]

- 5.12 Who decides electronic goods
 - Who in your family decides about buying electronic goods? Expects a single option response (required)
 - Husband [
 - U Wife [2]
 - Both [3]
 Eldest person in the household [4]
 - Other [5]

5.13 Who decides - childrens education

- Who in your family decides about children's education?
- Expects a single option
- Husband
- □ Wife [2]
- Eldest person in the household [4]
- Other [5]
- We do not have children/ children are not of school age yet [6]

5.14 Who decides - water

- Who in your family is responsible for having water in your house?
- Husband [1]
- 🖂 Wife [2]
- Both [3]
- Eldest person in the household [4]
- Other [5]

5.5 Where you buy or get your SODIS bottles

- Where did you buy or get your SODIS bottles?
 - At the market [1]
 - From an NGO [2]
 Pharmacy [3]
 - Householdware shop [4]
 - Water klosk [5]
 - Community based organisation, which come door to door or have a community mobilisation [6
 - Supermarket [7]
- Small shops/kiosk [8]
- From a microfinance institute [9]
 Do not have any [10]
- Do not have any [
 Others [11]
- outra (11)

Prerequisites Skip when Where you buy or get your SODIS bottles (5.5) Excludes 'Others [11]'

5.6 Where you get your SODIS bottles - Other

Please specify:

xpects a single line text response (required)

5.7 Where you get water treatment products

- Where would you prefer to buy water treatment products? [multiple choice]
 - At the market (1)
 - From an NGO [2]
 - D Pharmacy [3]
 - Householdware shop [4]
 - U Water klosk [5]
 - Community based organisation, which come door to door or have a community mobilisation [6
 - Supermarket [7]
 - Small shops/kiosk [8]
- From a microfinance institute [9]
- 🗌 Others [10]
- Skip when Where you get water treatment products (5.7) Excludes 'Others [10

5.8 Where you get water treatment products - Other

Please specify: Expects a single line text response (required)

- 5.9 Who decides household goods up to 500 KSH
 - Who in your family decides about buying household goods up to 500 KSH?
 - ects a single option response
 - Husband [1]
 Wife [2]
 - Both [3]
 - Eldest person in the household [4]
- Other [5]
- 5.15 Who decides drinking water treatment methods

Eldest person in the household [4]

How much is your monthly expenditure?

- Who in your family decides about buying drinking water treatment methods?
- Expects a single optic Husband [1] Wife [2]

Both [3]

Other [5]

5.16 Monthly expenditure

under 2'999 KSH

3'000-3'999 KSH [2

🖂 4'000-4'999 KSH [3

5'000-5'999 KSH (4

6'000-6'999 KSH [5]

8'000 KSH and more

🗌 under 2'999 KSH [1]

🗌 3'000-3'999 KSH [2

□ 4'000-4'999 KSH [3]

6'000-6'999 KSH (5

7'000-7'999 KSH [6]
 8'000 KSH and more [

5.18 Money family has available per week

100-500

□ 500-1'000 [2] □ 1'000-1'500 [3]

1'500-2'000 [4]

2'000-2'500 [5]

How much money does your family have available to spend per week?

How much is your monthly income?

5.17 Monthly income

5.19 What would you buy with 2000 KSH

What would you buy if you would have 2'000 KSH available?

- Radio 📋
- Chicken [2]
- Mobile [3]
- 🗌 Water filter [4]
- Goat [5]
- Food (6)
- Cloth [7]
- School fees [8]
- Start own business (a)
- Invest the money [10]

Buy household goods [11

5.20 Per month - Chlorine Aquatabs Waterguard

How much are you paying per months for chlorine (Aquatabs, Waterguard)?

0 KSH [0] 🗌 1-49 KSH [1 5 0-99 KSH [2] 🗌 100-149 KSH [3] 🗌 150-199 KSH [4] 200-249 KSH (5

- 🗌 250-299 KSH [6] 300-349 KSH [7

350 KSH and more (a

5.21 Per month - SODIS

How much are you paying per months for SODIS?

Expects a	single	option	response	(required)
🗌 0 KS	H [0]			

🗆 1-49 KSH [1]

5 0-99 KSH [2]

- 🗌 100-149 KSH [3]
- 150-199 KSH [4]

200-249 KSH [5]

- 250-299 KSH 16
- 300-349 KSH [7]

350 KSH and more [8]

uisites on How much did you pay for the co ic filter (5.26) Not Equal 'Other [4]' 5.27 How you paid for the ceramic filter - Other

Please specify:

onse (required)

5.28 What would you be willing to pay for a ceramic filter What would you be willing to pay for a ceramic filter?

what would you be winning to pay
Expects a single option response (re
🗌 0-499 KSH [1]
500.999 KSH (2)

1'000-1'499 KSH [3]

🗆 1'500-1'999 KSH [4]

2'000-2'499 KSH (51

- 2'500-2'999 KSH [6]
- 3'000-3'499 KSH [7

3'500 KSH and more [8]

5.29 How much you paid for treatment of last case of diarrhoea

How much did you pay for the treatment of the last case of diarrhoea? Less than 99 KSH [1] 100-499 KSH [2]

- 🗆 500-999 KSH [3]
- 🗌 1'000-1'499 KSH [4
- 1'500-1'999 KSH (51
- 🗌 2'000-2'499 KSH [6]
- 2'500 KSH and more [7
- No treatment paid [8]

5.22 Would per month - Chlorine Aquatabs Waterguard

What would you be willing to pay for chlorine (Aquatabs, Waterguard)?

- 0-49 KSH []]
- 5 0-99 KSH [2]
- 🗌 100-149 KSH [3 🗌 150-199 KSH [4
- 200-249 KSH [5]
- C 250,200 KSU ...
- 300-349 KSH [7] 350 KSH and more [8]

5.23 Would per month - coagulation chlorination (PUR)

What would you be willing to pay for coagulation/chlorination (PUR)?

0-49 KSH []]

- 50-99 KSH [2]
- 🗆 100-149 KSH [3]
- 🗌 150-199 KSH [4]
- 🗆 200-249 KSH [5] 2 5 0-2 99 KSH [6
- 🗌 300-349 KSH [7]
- 350 KSH and more [8

5.24 Would per month - SODIS

What would you be willing to pay for SODIS?

- 0-49 KSH []]
- 5 0-99 KSH [2]
- 🗌 100-149 KSH [3
- 🗆 150-199 KSH [4]
- 200-249 KSH [5] 2 5 0-299 KSH [6]
- 🗌 300-349 KSH [7]
- 350 KSH and more [8]

5.25 Did you buy a ceramic filter

Did you buy a ceramic filter? □ Yes [1] □ No [2]

Prerequisites Skip when Did you buy a ceramic filter (5.25) Equals 'No [2]'

5.26 How much did you pay for the ceramic filter How much did you pay for the ceramic filter?

- 1'600 KSH []
- 1'500 KSH [2
- 🗆 850 KSH [3] Other [4]

Section 6. Wealth index

6.1 Items owned

- Does anyone from your household own any of these items (are functioning)? [Say the answers, multiple choices possible]
- Electricity [1
- Radio [2]
- □ TV [3]
- Mobile phone
- Bicycle [5]
- Motorbike [6] Car [7]
- Fridge [8]
- Watch [9]

Cows [1]

Sheep [3] Goats [4]

Chickens

□ None (No animals) [8]

6.4 How many donkeys do you have How many donkeys do you have? Expects a numeric response (optional) Constraints Response must be Greater Than or Equal 'O'

Prerequisites Skip when Animals owned (6.2) Excludes 'Cows [1]' 6.3 How many cows do you have How many cows do you have? Expects a numeric response (optional Constraints Response must be Greater Than or Equal 'O'

Pigs [6] Rabits [7]

Donkeys [2]

6.2 Animals owned

Do you own any of these animals? (multiple choices possible)

Branches If response Includes "None (No animals) [8]" then skip to Fuel used the most for cooking (6.10)

6.10 Fuel used the most for cooking Prerequisites Skip when Animals owned (6.2) Excludes 'Sheep [3]' What kind of fuel do you use the most for cooking? 6.5 How many sheep do you have How many sheep do you have? Charcoal with improved stove [1] cts a numeric response (optional) Charcoal with unimproved stove [2] □ Wood with improved stove [3] Wood with unimproved stove [4] Constraints Response must be Greater Than or Equal '0' Kerosene [5] Gas [6] Prerequisites Skip when Animals owned (6.2) Excludes 'Goats [4]' Electricity [7] 6.6 How many goats do you have 6.11 Own or rent the house you live in How many goats do you have? Do you own or rent the house you are living in? Expects a numeric response (optional) Owning [1] Renting [2] 6.12 Observations by interviewer Prerequisites Skip when Animals owned (6.2) Excludes 'Chickens [5]' Interviewer, please answer the following questions based on your observations. 6.7 How many chickens do you have How many chickens do you have? 6.13 Walls of the main house What type of walls does the main house have? Constraints Response must be Greater Than or Equal '0' Cement/ concrete [1] Wood planks [2] Corrugated iron [3] Prerequisites Skip when Animals owned (6.2) Excludes 'Pigs [6]' □ Mud [4]
□ Stone [5] 6.8 How many pigs do you have How many pigs do you have? 6.14 Type of floor What type of floor is it? Constraints Response must be Greater Than or Equal 'O' Cement/concrete [1] Floor plates [2] Prerequisites Skip when Animals owned (6.2) Excludes 'Rabits [7]' Earth [3] 6.9 How many rabbits do you have Dung [4] How many rabbits do you have? 6.15 Type of roof Expects a numeric response (optional) What type of roof is it? Constraints Response must be Greater Than or Equal 'O' Thatch, straw [1] Bricks [2]
Corrugated iron [3]

6.16 Rooms the main house has

How many rooms does the main house have?

Expects a single op

One [1]
Two [2]

Three [3]

🗆 Four [4]

Five or more [5]

Section 7. End

7.1 End

You've reached the end of the questionnaire. Please press Back to review your responses, or press Next to submit the survey.

Evaluation of distribution models for household water treatment products in Kenya

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Background

Global efforts to scale up the promotion of household water treatment as well as establishing sustainable water treatment practices have been difficult. This can be attributed to challenges particular to the market at the base of the pyramid such as lack of awareness on the importance of treating drinking water, lack of access to products, particularly in rural areas, lack of a broader choice of suitable products and difficulties to establish sustainable supply chains.

The marketing of ceramic filters has been challenging since the BOP markets are largely dominated by fast-moving consumer goods and previous marketing trials with filters revealed that successful marketing is among other factors linked with the provision of microcredits. Between January 2012 and April 2013 marketing trials for ceramic water filters and other HWTS products were carried out in Kenya and Bolivia to assess the influence of the different stakeholders responsible for community education and operation of distribution and retail sales on product sale and willingness to pay for ceramic filters.

Method

Four different project sites were chosen for the marketing trial in Kenya. The sites were selected based on sufficient water supply from surface sources, keeping enough distance between the sites to avoid cross-flow of information, interest for partnership from the District Public Health and Sanitation office as well as community leaders and no previous distribution of free products for household water treatment had taken place.

- In site 1, the community education was done through the NGO's promoters, while the sale of products was done through a water supply utility and local entrepreneurs (Munyu in Thika District).
- In site 2 the community education and product sale were done through community health workers of the official public health system (Thuthua in Thika District).
- In site 3, community groups were trained and motivated to do community education as well as product sale (Mwala District).
- In site 4, the communication as well as the sale of products was done through the promoters of an NGO (Mwala District).

In each site 300 households received trainings through household visits and community group training events. These households were surveyed at baseline and after about 11 months of marketing the products. Quantitative questionnaires were used to collect information from households, while sales staff gathered qualitative information and records of

Description of intervention sites

In Kenya, intervention sites were selected in Munyu and Thuthua area in Thika East District. Most people in this area get their water from the turbid river. In Mwala District, Yathui and Mutheteni were chosen as intervention sites. Also in Mwala, most households get their water from

surface sources. Villages around Muthetheni in Mwala District get their drinking water by scooping sand from the riverbed of Nthwake river. The sites in chosen in Mwala District are less accessible and have a higher imployment rate in Agri-

culture than in Thika.



Fig 1: Occupation of households in the four intervention sites

Establishment of the supply chain for products

At the start of the intervention, a bulk delivery of 200 ceramic filters was made from Kenya Ceramic Project to Thika for a whole sale price of 1300 KSH (15 USD) per filter (ex-factory price of 1100 KSH (12.7 USD) plus transport from Kitale to Thika). From Thika, 40 filters were transported to the project area in Mwala, where to wholesale price mounted up to 1350 KSH (15.6 USD). The retail price of filters was 1500 KSH (17.3 USD) in Thika and initially 1600 KSH (18.4 USD) in Mwala (later reduced to a subsidized price of 850 KSH). The project provided KCP a financial guarantee. Wholesalers however made the payments for the filters directly to KCP after product sale. At the retail level, individual customers were able to pay for their filters in installments. Filters were handed out once the full payment was received.

For the supply of Chlorine products, a collaboration was established with PSI, who directly supplied the Chlorine products to the wholesalers. The wholesale price for a 150ml bottle of Waterguard was 16.5 KSH a pack of 20 tablets of Aquatabs 42 KSH and a PUR sachet 4.22 KSH.

Area 1: (Thika) Promotion NGO, Sale water utility & local entrepreneurs

Description of the Intervention

Community education through the promoter through household visits, together with information dissemination during community meetings and other social gatherings.

rates were added to the water bill.

Qualitative Results

The committee of the community water project (CWP) sold 51 filters The community health workers sold 40 filters for a price of 16.5 USD for a price of 16.5 USD. 2 local shops in the project area sold 4 filters. Sale and social marketing with the health centre and the community

Selling filters through a community based enterprise already providing piped water in combination with community education through a promoter was the most successful intervention. **CWP** however received several complaints from customers that they should provide safe water instead of only collected river water,

distributing it untreated to the households and selling household However, the Community Health Workers (CHW) initially were One of the groups involved in community education and products water filters to the household who consume the water they provide. having some difficulties to manage the finances. As they sold the sale: the CBO "House of Drums" was selling various PSI products CWP enabled payment in instalments to their customers. water filters by installment payments and did not have an account before we introduced the project. During the project period the ant responsible for this finance, the group had difficulties to keep group was very successful selling smaller HWTS products and also records of all sales and payments after several months. After a fi-In area 1, in addition to CWP several retail shops sold chlorination was able to sell a number of water filters after the price was lowere products, mainly water guard and also took up the sale of ceramic nancial management training was provided, the CHW were able to from 16.5 USD to 10 USD. filters. However the sale of the relatively expensive ceramic filters organise themselves and had a good bookkeeping of their sales. The other CBO "Itithini Organic Self Help Group" did not have any through these kiosks has been challenging due to space limitations The CHW's sold the filters at different prices. The wholesale price sales experience and their working method was not very dynamic and the difficulty to collect payment in installments. A lack of cuswas 1'300 KSH and the recommended retail price 1'500 KSH. Never Their sales skills were limited and keeping their motivation up was tomers trust into the kiosk owners prevented them to pay their filtheless, some CHW chose to rise the retail price to increase their difficult as they were not earning and profits. "Itithini Organic Self ters in installments to the kiosks (filters were handed out after the profit margin from 200 up to 300 or 400 KSH. No chlorination prod Help Group" did not sell any filters and only a very limited amount full payment for the filter was received). The kiosks are more suitucts were sold in this area of chlorination products. able to sell small items such as Waterguard and PUR.

Quantitative Results





Fig 3. WTP for filters in different intervention sites

A significant regional difference between Thika District and Mwala District, which is more agriculturally oriented than Thika, was found in the willingness to pay for ceramic filters: In Mwala, only 13% of households were willing to pay more than 11 USD at baseline, and only 4% of households were willing to pay more than 11 USD after the intervention, while in Thika, 31% of households were willing to pay more than 11 USD for a ceramic filter at baseline and 18.55% of households were willing to pay more than 11 USD after the intervention.

In all regions 79% of all households were not willing to pay more than 11 USD for a ceramic filter: 51% were willing to pay up to 5.4 USD, 28.3% were willing to pay 5.5 to 10 USD.

Area 2: (Thika) Promotion & Sale **Community Health Workers**

Retail distribution and sale of HWTS products through the operating committee of the community water project (CWP) in Munyu. The CWP is a financially self-sustainable group, managing the piped water supply scheme in the area, which is distributed without prior treatment. The CWP sold filters to their existing network of custom-

ers. Payment in installments for filters was possible, the payment Filters in Munyu were sold for 1'500 KSH. CWP obtained a profit

margin of 200 KSH from the sale of one filter. In addition to CWP, two shop owners were selling HWTS products,

Description of the Intervention

Community education and sale of ceramic filters through commu nity health workers of the Community Health Unit in partnership with the Public Health Officer. The promotion approach included community meetings and household visits. The community health workers visited households mainly over the weekend. Training and supervision of CHW's through the NGO.

Ceramic filters were supplied on credit for 1'300 KSH per piece to the Public health office, where the CHW's could pick them up for sale. CHW's sold filters within the community for 1'500 KSH and gained a profit margin of 200 KSH. Customers paid in installement Filters were handed out after full payment was received.

Qualitative Results

health workers (CHW) in Thika worked out well. The initiative was strongly supported by the Public health officer in Thika, who prompted to CHW's in this area to define sales targets. The group of CHW's were motived in selling water filters and interested in making profit from the sale.







Fig 4. Use of HWTS products before and after intervention

In all areas, the use of household water treatment increased by an average of 20% from 61.4% to 81%. In site 1: 65.5% to 85.9%, in site 2: 60.75 to 69.3%, in site 3: 58.7% to 81.1%, in site 4: 60.6% to 87.5% in area 4.

A larger influence of the intervention was observed on the frequent use (defined as using the method often to always) of household water treatment it in increased from 40.2% to 62.9% in area 1, 35.4% to 51.8% in area 2, 25.5% to 69.9% in area 3, 35% to 73.6% in area 4; and from 34.6% to 65% in all areas in average.

Before the community education activities were implemented, a lower number of households in Mwala District used Chlorination to disinfect their drinking water; 30% in area 3 and 33% in area 4, compared to 68.6% of households in area 1 and 55.7% in area 2 in Thika Distict having a chlorine product available. The intervention increased the availability of chlorine in the household in Mwala District by 27.3% in area 3 and 10.3% in area 4.

In area 1 and 2 however the availability Chlorine products in the households decreased. In those areas more people said that they would be boiling and 5% of households in area 1 and 10% in area 2 switched to using a ceramic filter. Only very few ceramic filters were sold in area 3 and 4 - even after the selling price of the filters in these areas was reduced to 10 USD.

Households in all areas had the impression that a higher number of neighbours are using household water treatment. The percentage o neighbours using increased by 23.6% to 54.3% in site 1, by 23.7% to 54.5% in site 2, by 48.1% to 75% in site 3 and by 37.6% to 69.4% in site4.

Area 3: (Mwala) Promotion & Sale **Community based Organisation**

Description of the Intervention

Community education and sale of ceramic filters and chlorine pro ucts through two community organizations, "House of drum youth group" and "Utithini organic self-help group". While "House of drum youth group" had an existing working relation with PSI prior to the start of the project as wholesaler for health products include ing Chlorine and had corresponding business experience, "Utith organic self-help group" did not have previous experience with the marketing of products. Training and supervision of the CBO's through the NGO.

CBO's collected the filters after pre-payment of 1'350 KSH per filte from the NGO promoter, who had the role of a wholesaler in Mwala. The CBO sold the filters to the community members at 1'600 KSH, gaining a profit margin of 250 KSH.

At the time of the midterm evaluation, no filters were yet sold in this intervention site. The selling price therefore was lowered to a subsi- dized price of 850 KSH. Customers paid in installements. Filters dized price of 850 KSH. Customers paid in installments. Filters were handed out after full payment was received.

Qualitative Results

One of the community groups sold 11 filters for a price of 10 USD and had a good sale of chlorination products The second community groups did not sell any filter and did not have a good sale of chlorination products.

Working with Community based organisations (CBO) revealed that organizing distribution and social marketing through a community based organization might be successful, but only if the group is well organized and has sales experience.

Area 4: (Mwala) Promotion & Sale **Promoter of an NGO**

Description of the Intervention

The promotion and sale of ceramic filters and chlorine products ini tially was done through a promoter of the NGO. Promotion activities comprised household visits, community group trainings and a number of community demonstrations. However, the sale of chlorine products through a promoter had to be ceased as household were claiming to receive products for free as they were distributed through an NGO. Subsequently, four entrepreneurs were identified and established as retail distributers for Chlorine products. Ceramic filters were directly sold by the KWAHO promoter, initially for a price of 1600 KSH (The selling price in Mwala District was higher than in Thika District to cover for the cost of transport of filters from Thika to Mwala).

At the time of midterm evaluation no filters were yet sold in this intervention site. The selling price therefore was lowered to a subsiwere handed out after full payment was received

Qualitative Results

The NGO promoter sold 1 filter for 17.5 USD and 26 filters for 10 USD

The NGO promoter was very committed in implementing an effective community education campaign. He was able to reach all of the 300 households several times and participated in various community gatherings. However, the model of combining community education and product sale through a promoter was problematic as the households trained demanded goods for free as they perceive NGO's as charity organizations. The sales model therefore was reorganized and the sale of chlorination products handed over to local shops in the project area.

The promoter continued with the sale of ceramic filters, but only was able to sell filters after the price was lowered from 17.5 USD to 10 USD. He offered payment in instalment schemes to the customers and handed over the filters after he had received the full payments for the filters. For this scheme to be acceptable within the community, the promoter had to place much effort to build a relationship of trust within the community.

	-			_	r-	
Outcome variable: Frequent use of HWTS		S.E.	р	OR	95% C.I. foi	r OR
					lower	upper
Education level	.400	.123	.001	1.491	1.172	1.898
Turbidity of water	.230	.139	.098	1.258	.959	1.651
Promotion received	-2.248	.410	.000	.106	.047	.236
Information through health center	368	.227	.106	.692	.443	1.081
Information through CBO	.132	.196	.501	1.141	.777	1.677
Information through Promoter	.144	.207	.486	1.155	.769	1.735
Information through Shop owner	263	.351	.454	.769	.386	1.530
Information through Com. Health Worker	260	.223	.242	.771	.498	1.193
Information through Com. Meeting	.910	.467	.051	2.485	.996	6.202
Information through Demo in town	1.254	1.305	.337	3.504	.272	45.224
Information through TV, Radio, Newspaper	-1.288	.363	.000	.276	.135	.562
Into through other	-1.780	1.019	.081	.169	.023	1.244
Did promotion change behaviour	-1.798	.306	.000	.166	.091	.302
Like the method used for treatment	.717	.076	.000	2.049	1.764	2.380
Importance of treating the water	.537	.099	.000	1.711	1.410	2.077
Percentage of neighbours using HWTS	.671	.072	.000	1.957	1.699	2.254
Untreated water good or bad for health	.074	.046	.109	1.077	.984	1.179
Handwashing index	.261	.054	.000	1.298	1.167	1.444
Money available per week	.000	.000	.202	1.000	1.000	1.001
WTP for ceramic filters	.163	.092	.078	1.177	.982	1.411
Constant	-3.872	1.043	.000	.021		

R²=0.294 (Cox and Snell), R²=0.406 (Nagelkerke), Model x²(20)=585.480

Tab 1. Logistic regression: Frequent use of HWTS after project intervention

Logistic regression with frequent use of HWTS after project intervention as outcome variable revealed that mainly factors relating to people's attitude and social norms were significantly correlated with HWTS use as well as frequent use of HWTS: if they think that it is important to treat the water, if they like the system they are using, and if a high number of neighbours are using the method. In addition, the education level, TV & Radio as information source were signifiantly correlated with frequent HWTS

If households received a promotion (household visit) had a significant correlation, but it was not relevant if the promotion was done through the health sector, a promoter of an NGO or a community based organization

Contrary to findings at baseline (data not shown) risk perception and money available per week were not significantly correlated with frequent HWTS use.



Conclusions

The logistic regression for frequent use of household water treatment after the intervention revealed that sociopsychological factors such as emotional attributes (if they like the system used – OR: 2.05, CI: 1.8-2.4), if they think it is important to treat the water (OR: 1.7, CI: 1.4-2.1) and social norms (how many neighbours are using household water treatment – OR: 1.9, CI: 1.7-2.3) as well as the education level (OR: 1.5, CI: 1.2-1.9) have the strongest influence on the frequency of household water treatment

Not a significant influence on frequent use of household water treatment had the risk awareness of users (if they think that drinking water causes diarrhea or other illnesses or has no impact). Also the economic status of the household only in a single factor analysis was correlated significantly with frequent use.

Highly significant but with a smaller odds ratio of 0.104 (CI:0.05-0.2) was the fact if they received a promotion including household visits or not. A stronger effect (OR: 1.3, CI: 1.2-1.4) had the handwashing index, but the two variables are not independent since during the household visits training was provided on household water treatment as well as handwashing. Not significant was the channel used to disseminate the information, the data collected indicates that it does not make a great difference if household visits for community education are conducted by promoters of an NGO, by community health workers or by members of a community based organization.

We therefore can conclude that community education through household visits, independent of the stakeholder carrying out the activity, is an important strategy for social marketing of HWTS products. Such an activity should be complemented by disseminating information through TV & Radio (OR: 0.28, CI:0.14-0.56).

The sales experiences showed that the marketing of products requires a sales force with sales experience and an entrepreneurial spirit that involves the definition of sales targets. Community based organizations or community health workers successfully can be used for selling products, but they need to be equipped with the adequate management skills and should have the motivation to make sufficient profit through the sale of the products.

Very promising is the approach of selling products through water supply utilities. Enterprises, providing a basic service have a good predisposition to distribute higher priced products since the collection of payment in installments can be added to the water bill.

Working with groups that do not have any know-how or experiences in product marketing and sale is not recommended since the risk for failure of the distribution mechanism is high. Using promoters of an NGO for community education as well as product sale is not recommended as on one side, promoters often lack sales skills and on the other side, customers often approach representatives of an NGO with an attitude of getting something for free, which has a negative effect on their willingness to buy a product from an NGO's promoter.

Local entrepreneurs with small kiosks have sufficient sales experience but the sale of bulky and expensive products such as water filters is a challenge due to space limitations and challenges with payment in installments schemes. Fast moving consumer goods such as chlorination products can be sold well through small kiosks.

Questions on income levels and what an individual household would buy with 20 USD showed that the majority of household would spend their money on food (data not shown). The purchase of a higher priced product for water treatment such as a ceramic filter is a challenge for households living at the base of the pyramid. In Mwala District ceramic filters were only sold after the price was lowered from 17.5 USD to 10 USD. In the whole project area only a few customers bought their filters with an upfront payment. To offer customers the opportunity to pay for a filter in installments is an important element that facilitates product sale. If filters are handed out after the full payment has been received, a relation of trust between the customer and the seller is essential to motivate customers to buy a filter through such a scheme.

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