

SWASH+ Baseline Report Appendix

Detailed Results Tables

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Table 1: Characteristics of SWASH+ schools

	Enrollment Characteristics			Teacher Information		School Facility Characteristics					
	# of boys	# of girls	Girl:Boy Pupil Ratio	# of Teachers	Pupil: Teacher ratio	Pupil: Classroom ratio	Schools having iron roof	Schools having both iron and thatch roof	Schools having cement floor	Schools having dirt floor	Schools having both cement & dirt floors
	<i>mean</i>	<i>mean</i>	<i>ratio</i>	<i>median</i>	<i>ratio</i>	<i>ratio</i>	%	%	%	%	%
Total	191.2	181.8	0.950	10	37.0	42.4	98.9	1.1	23.1	44.0	33.0
Kisumu/Nyando	202.9	197.0	0.963	11	35.9	42.1	96.7	3.3	18.3	66.7	15.0
Kadibo	216.0	217.9	1.020	11	41.8	43.4	100.0	0.0	6.7	46.7	46.7
Miwani	165.3	152.7	0.929	10	31.8	37.6	92.3	7.7	7.7	84.6	7.7
Muhoroni	244.1	241.2	0.966	11	37.0	47.3	100.0	0.0	42.1	57.9	0.0
Rachuonyo	171.7	165.1	0.965	10	36.4	39.2	100.0	0.0	27.9	22.1	50.0
East Karachuonyo	168.5	164.1	0.980	9	39.2	42.7	100.0	0.0	31.7	14.6	53.7
Kabondo	175.8	166.5	0.948	10	33.2	35.1	100.0	0.0	22.2	33.3	44.4
Suba	198.1	181.9	0.922	10	38.8	45.9	100.0	0.0	22.2	46.3	31.5
Central	192.8	185.0	0.944	9	38.5	41.3	100.0	0.0	22.2	33.3	44.4
Gwassi	207.7	186.8	0.917	10	40.1	52.4	100.0	0.0	21.7	60.9	17.4
Lambwe	187.6	167.8	0.897	10	36.5	40.5	100.0	0.0	23.1	38.5	38.5
Base/San Total	190.9	181.8	0.952	10	36.7	42.4	98.5	1.5	21.1	42.9	36.1
Base only	201.8	194.4	0.965	10	37.7	40.4	100.0	0.0	28.9	33.3	37.8
Base + San	206.3	198.0	0.951	10	39.1	47.5	97.7	2.3	22.7	45.5	31.8
Base/San Control	165.3	154.1	0.940	10	33.4	39.3	97.7	2.3	11.4	50.0	38.6
Water Total	192.0	181.8	0.947	10	37.8	42.6	100.0	0.0	28.6	46.9	24.5
Water	183.3	175.7	0.954	10	35.7	40.4	100.0	0.0	25.0	58.3	16.7
Water control	201.1	188.0	0.940	10	40.0	44.9	100.0	0.0	32.0	36.0	32.0

Table 2: School primary drinking water source (by season)

	Primary drinking water source during RAINY season					Primary drinking water source during DRY season				
	No source of drinking water	Covered well, borehole or spring/ piped source	Unprotected surface source	Rainwater	Improved source (total)*	No source of drinking water	Covered well, borehole or spring/ piped source	Unprotected surface source	Rainwater	Improved source (total)*
	%	%	%	%	%	%	%	%	%	%
Total	2.2	12.1	17.6	68.1	77.5	7.1	28.0	61.5	2.7	17.6
Kisumu/Nyando	1.7	16.7	10.0	71.7	88.3	10.0	38.3	45.0	6.7	31.7
Kadibo	0.0	20.0	0.0	80.0	100.0	26.7	53.3	20.0	0.0	46.7
Miwani	3.8	19.2	11.5	65.4	84.6	7.7	42.3	46.2	3.8	30.8
Muhoroni	0.0	10.5	15.8	73.7	84.2	0.0	21.1	63.2	15.8	21.1
Rachuonyo	4.4	8.8	14.7	72.1	76.5	5.9	16.2	76.5	1.5	7.4
East Karachuonyo	0.0	9.8	7.3	82.9	90.2	4.9	19.5	75.6	0.0	9.8
Kabondo	11.1	7.4	25.9	55.6	55.6	7.4	11.1	77.8	3.7	3.7
Suba	0.0	11.1	29.6	59.3	66.7	5.6	31.5	61.1	0.0	14.8
Central	0.0	5.6	16.7	77.8	83.3	0.0	38.9	55.6	0.0	5.6
Gwasssi	0.0	17.4	52.2	30.4	43.5	0.0	26.1	73.9	0.0	17.4
Lambwe	0.0	7.7	7.7	84.6	84.6	23.1	30.8	46.2	0.0	23.1
Base/San Total	1.5	15.8	18.8	63.9	75.9	5.3	35.3	58.6	0.8	23.3
Base only	0.0	17.8	17.8	64.4	80.0	8.9	28.9	60.0	2.2	17.8
Base + San	2.3	15.9	18.2	63.6	75.0	2.3	36.4	61.4	0.0	25.0
Base/San Control	2.3	13.6	20.5	63.6	81.6	4.5	40.9	54.5	0.0	2.0
Water Total	4.1	2.0	14.3	79.6	72.7	12.2	8.2	69.4	8.2	27.3
Water	8.3	4.2	16.7	70.8	75.0	12.5	4.2	66.7	12.5	0.0
Water control	0.0	0.0	12.0	88.0	88.0	12.0	12.0	72.0	4.0	4.0

*An "improved source" is one within 1 kilometer that is likely to provide "safe" water, such as rainwater, household connections, public standpipes, boreholes, and protected wells and springs (Source: Joint Monitoring Programme).

Table 3: Distance and time to primary school drinking water source				
	Distance to water source (meters)		Maximum distance to drinking water source (meters)	
	Rainy season	Dry season	Rainy season	Dry season
	<i>mean</i>	<i>mean</i>	<i>mean</i>	<i>mean</i>
Total	232	1,223	632	1,640
Kisumu/Nyando	69	381	377	768
Kadibo	67	187	108	329
Miwani	104	410	196	736
Muhoroni	22	487	818	1,113
Rachuonyo	150	1,834	525	2,201
East Karachuonyo	170	1,958	417	2,523
Kabondo	119	1,646	704	1,673
Suba	522	1,400	1,039	1,890
Central	583	1,824	956	2,067
Gwasssi	711	1,224	1,465	1,925
Lambwe	83	1,138	346	1,038
Base/San Total	197	945	523	1,096
Base only	134	989	452	1,368
Base + San	343	988	605	987
Base/San Control	116	858	515	960
Water Total	326	1,981	927	3,216
Water	380	1,814	956	3,300
Water control	272	2,128	901	3,132

	Rainwater Collection		Condition of rainwater harvesting facilities			Rainwater Tank Capacity	
	Schools with rainwater tank	Duration of reported rainwater use (months)*	Tanks in good condition*	Gutters in good condition*	Both tank and gutters in good condition and connected*	Tank capacity (liters)*	Duration of full tank (days)* †
	%	mean	%	%	%	mean	mean
Total	85.0	3.8	61.6	62.4	44.9	6,850	42.9
Kisumu/Nyando	89.1	3.6	63.3	82.6	54.3	4,521	28.1
Kadibo	100.0	4.0	80.0	90.9	81.8	4,323	26.1
Miwani	78.9	2.9	46.2	89.5	31.6	2,305	16.0
Muhoroni	93.8	4.3	73.7	68.8	62.5	7,728	46.4
Rachuonyo	76.8	3.5	71.0	55.4	43.1	5,100	29.5
East Karachuonyo	77.8	3.3	78.6	63.9	52.6	5,029	29.7
Kabondo	75.0	3.8	59.3	40.0	25.0	5,229	29.2
Suba	93.5	4.4	48.2	45.2	35.3	13,020	79.8
Central	100.0	3.8	66.7	53.8	46.2	11,319	69.6
Gwasssi	100.0	4.3	26.1	14.3	14.3	5,788	29.6
Lambwe	81.8	5.4	60.0	54.5	35.7	20,109	126.9
Base/San Total	82.4	3.9	57.0	58.2	36.8	7,002	44.6
Base only	75.9	4.2	62.2	65.5	50.0	6,720	46.5
Base + San	83.3	3.9	57.8	50.0	28.1	6,692	40.1
Base/San Control	87.5	3.6	51.1	59.4	33.3	7,553	47.1
Water Total	90.5	3.4	74.0	71.4	62.8	6,520	39.1
Water	84.2	3.1	64.0	63.2	50.0	5,697	33.3
Water control	95.7	3.8	84.0	78.3	73.9	7,275	45.0

* Among schools possessing proper equipment
† Duration of tank assumes 0.5 liters per student per day

	Water Treatment	Type of treatment reported*		
	Schools that report treating drinking water	WaterGuard	Boil	Chlorine/ Aquatabs/ Bleach
	%	%	%	%
Total	30.2	68.4	15.8	15.8
Kisumu/Nyando	5.3	100.0	0.0	0.0
Kadibo	0.0	0.0	0.0	0.0
Miwani	0.0	0.0	0.0	0.0
Muhoroni	16.7	100.0	0.0	0.0
Rachuonyo	35.7	50.0	20.0	30.0
East Karachuonyo	38.5	100.0	0.0	0.0
Kabondo	33.3	0.0	40.0	60.0
Suba	50.0	87.5	12.5	0.0
Central	33.3	50.0	50.0	0.0
Gwasssi	25.0	100.0	0.0	0.0
Lambwe	83.3	100.0	0.0	0.0
Base/San Total	23.3	50.0	30.0	20.0
Base only	25.0	66.7	0.0	33.3
Base + San	38.5	60.0	20.0	20.0
Base/San Control	11.1	0.0	100.0	0.0
Water Total	45.0	88.9	0.0	11.1
Water	55.6	80.0	0.0	20.0
Water control	36.4	100.0	0.0	0.0

* Among schools that report treating drinking water

	Girls' Latrine				Boys' Latrine				Total
	Girl: Latrine ratio	Schools exceeding government standards*	Schools exceeding standards by factor of two or more (50+ girls/latrine)	Schools exceeding standards by a factor of three or more (75+ girls/latrine)	Boy: Latrine ratio	Schools exceeding government standards**	Schools exceeding standards by factor of two or more (60+ boys/latrine)	Schools exceeding standards by a factor of three or more (90+ boys/latrine)	Total student: Latrine ratio
	<i>ratio</i>	%	%	%	<i>ratio</i>	%	%	%	<i>Ratio</i>
Total	72.1	97.6	61.9	32.7	81.2	95.8	60.8	31.3	74.6
Kisumu/Nyando	83.4	100.0	63.3	38.3	92.1	98.3	66.1	33.9	85.5
Kadibo	87.3	100.0	66.7	60.0	94.3	100.0	73.3	40.0	86.4
Miwani	66.5	100.0	57.7	23.8	73.3	100.0	52.0	24.0	70.9
Muhoroni	103.3	100.0	68.4	42.8	115.3	94.74	79.0	42.1	104.8
Rachuonyo	57.7	92.7	50.9	21.8	61.6	89.1	47.3	14.6	57.3
East Karachuonyo	58.8	87.1	54.8	25.8	67.2	87.1	61.3	22.6	61.0
Kabondo	56.2	100.0	45.8	16.6	54.3	97.6	29.2	4.2	52.6
Suba	74.3	100.0	71.7	37.7	89.7	100.0	69.2	46.2	80.0
Central	71.9	100.0	72.2	33.3	74.6	100.0	55.6	27.8	71.4
Gwasssi	86.7	100.0	78.3	56.5	104.7	100.0	82.6	65.2	93.2
Lambwe	54.1	100.0	58.3	8.33	83.0	100.0	63.6	36.4	67.9
Base/San Total	75.5	98.4	63.4	34.2	82.2	95.9	58.2	31.2	76.6
Base only	72.9	100.0	60.0	31.0	84.5	95.0	57.5	35.0	75.4
Base + San	86.6	97.6	69.3	41.5	91.0	97.5	67.5	37.5	87.4
Base/San Control	67.2	97.6	61.9	26.2	71.7	95.2	50.0	21.4	67.3
Water Total	62.7	95.6	57.8	28.9	78.5	95.5	68.2	31.8	68.9
Water	62.4	95.7	60.9	21.7	76.1	95.5	59.1	31.8	69.8
Water control	63.1	95.5	54.6	36.6	81.0	95.5	77.3	31.8	68.0

* GoK recommended ratio: 25 girl pupils per latrine
** GoK recommended standard: 30 boy pupils per latrine

	Individual Latrines		Latrine Banks					
	Number of individual latrine doors	Individual doors that close completely	Number of latrine banks	Banks with foul odors	Bank unclean and/or visible feces	Banks with fly control problems	Banks with cracks in latrine superstructures	Banks with cracks in latrine slabs
	<i>median</i>		<i>median</i>					
Total	7	59.8	3	57.1	46.3	45.5	19.9	18.2
Kisumu/Nyando	6	72.6	3	52.9	41.8	34.5	16.1	24.6
Kadibo	5	60.8	3	62.2	60.0	28.9	17.8	44.4
Miwani	5.5	78.0	3	45.1	27.2	36.7	6.4	9.9
Muhoroni	6	74.5	2	56.1	47.4	36.0	28.1	28.9
Rachuonyo	8	52.1	3	49.8	34.7	34.6	17.3	16.3
East Karachuonyo	8	57.2	3	47.5	30.4	28.5	14.6	12.9
Kabondo	8	44.3	3	53.3	41.3	43.8	21.4	21.4
Suba	6	54.9	3	70.9	65.8	71.6	27.5	13.5
Central	7	44.7	3	77.2	71.7	78.5	24.5	7.6
Gwasssi	6	52.2	3	68.4	62.7	70.3	21.6	17.3
Lambwe	8	75.2	3	66.4	62.9	63.6	43.2	15.1
Base/San Total	7	60.6	3	56.6	46.1	45.7	18.9	18.0
Base only	7	61.6	3	55.2	48.6	42.0	15.3	16.0
Base + San	7	59.3	3	52.9	46.9	44.4	19.1	15.6
Base/San Control	5.5	61.1	3	61.7	43.0	50.5	22.1	22.1
Water Total	7	57.6	3	58.3	46.7	45.2	22.6	18.9
Water	7.5	57.4	3	49.6	37.1	38.1	26.4	18.2
Water control	6	57.7	3	66.7	56.0	52.0	19.0	19.7

Table 8: School handwashing facilities and drinking water storage facilities			
	Schools providing handwashing water*	Proportion of each school's drinking water containers that have a lid	Proportion of each school's drinking water containers that have a tap
	%	%	%
Total	34.5	59.6	8.6
Kisumu/Nyando	61.5	65.2	9.1
Kadibo	80.0	80.3	18.2
Miwani	50.0	43.8	0.0
Muhoroni	50.0	66.7	0.0
Rachuonyo	20.8	60.0	13.3
East Karachuonyo	57.1	50.0	12.5
Kabondo	5.9	64.7	13.7
Suba	33.3	52.6	2.0
Central	15.4	33.3	0.0
Gwasssi	57.1	100.0	13.3
Lambwe	100.0	62.5	0.0
Base/San Total	29.3	58.5	7.5
Base only	38.9	52.0	7.8
Base + San	10.0	65.3	14.6
Base/San Control	30.8	62.7	11.8
Water Total	47.1	60.0	2.5
Water	50.0	77.8	0.0
Water control	44.4	45.8	25.0
* On the day of the survey			

Table 9: Student health club involvement and message transfer			
	School Health Clubs		Message Transfer
	Pupils aware of a school health club	Pupils who are members of school health club*	Pupils who have told others about health club lessons
	<i>%</i>	<i>%</i>	<i>%</i>
TOTAL	23.3	7.0	80.8
Kisumu/Nyando	12.1	2.9	84.0
Kadibo	22.8	5.5	100.0
Miwani	2.1	0.4	100.0
Muhoroni	16.8	4.0	71.4
Rachuonyo	29.8	9.4	87.8
East Karachuonyo	24.5	10.6	89.3
Kabondo	39.0	7.3	82.6
Suba	26.1	7.9	67.8
Central	23.2	3.1	100.0
Gwasssi	31.6	10.7	53.1
Lambwe	21.0	10.0	77.8
Base/San Total	21.3	6.6	79.7
Base	21.9	6.3	71.0
Base/San	19.4	7.1	86.7
Control	22.6	6.5	78.4
Water Total	27.6	7.7	82.6
Water	23.1	5.7	84.0
Water control	32.0	9.5	81.8
* Among those aware of a club at their school			
† Among club participants who have had lessons			

Table 10: Student water collection and reported water availability			
	Water Availability		
	Collect surface water for drinking at school	Report drinking water not always or never available at school	Take drinking water home from school
	%	%	%
TOTAL	15.9	84.5	41.0
Kisumu/Nyando	16.6	82.5	19.4
Kadibo	6.0	80.7	0.0
Miwani	11.9	88.8	34.7
Muhoroni	27.4	76.9	11.2
Rachuonyo	17.0	84.4	77.1
East Karachuonyo	19.0	84.4	75.5
Kabondo	13.7	84.4	83.3
Suba	19.0	86.7	49.0
Central	15.2	93.5	0.0
Gwasssi	32.9	93.4	66.7
Lambwe	1.4	65.8	56.4
Base/San Total	20.0	83.5	38.1
Base	21.2	84.5	37.7
Base/San	22.1	81.4	39.0
Control	16.5	84.4	37.7
Water Total	12.4	86.9	58.0
Water	15.1	87.7	70.2
Water control	9.8	86.2	45.7

Table 11: Student WaterGuard knowledge and reported use			
	Knowledge and use of WaterGuard among all students		
	Pupils who have heard of WaterGuard before	Pupils who know how to use WaterGuard	Students who treat water using WaterGuard at home
		<i>%</i>	<i>%</i>
TOTAL	95.1	41.0	26.8
Kisumu/Nyando	93.9	42.3	31.0
Kadibo	95.8	32.0	22.4
Miwani	90.8	39.6	24.6
Muhoroni	96.1	50.8	42.5
Rachuonyo	98.3	48.4	30.9
East Karachuonyo	99.1	54.2	38.7
Kabondo	97.0	38.4	17.5
Suba	92.4	30.7	17.8
Central	94.5	32.5	21.3
Gwasssi	87.3	28.1	12.7
Lambwe	98.0	32.6	21.5
Base/San Total	95.1	38.8	24.5
Base	94.7	36.6	23.2
Base/San	95.6	40.5	27.1
Control	94.9	39.4	23.2
Water Total	95.3	45.8	32.0
Water	95.1	49.4	33.8
Water control	95.4	42.3	30.2

Table 12: Student reported water treatment and WaterGuard knowledge

	Water Treatment at home		Correct knowledge of WaterGuard treatment methods†			
	Treat water at home	Use WaterGuard at home*	Dosage for clear water	Dosage for turbid water	Waiting time after dosage	Knowledge of all (dosage & waiting time)
	%	%	%	%	%	%
TOTAL	62.7	64.0	36.1	20.5	37.6	10.7
Kisumu/Nyando	62.9	69.2	41.3	23.7	42.6	13.5
Kadibo	61.0	47.8	24.0	1.4	35.4	0.0
Miwani	51.0	71.2	37.5	20.9	34.3	10.5
Muhoroni	76.6	79.0	55.0	39.0	55.4	24.1
Rachuonyo	70.0	64.8	34.1	19.0	36.6	8.5
East Karachuonyo	70.6	64.6	42.6	24.0	43.8	11.5
Kabondo	69.1	65.2	19.5	10.2	24.3	3.4
Suba	53.3	58.0	33.5	19.5	34.0	10.7
Central	64.3	59.9	26.8	20.5	35.4	9.9
Gwasssi	38.5	46.8	30.3	12.2	27.8	5.9
Lambwe	62.5	74.2	48.2	29.6	42.0	19.4
Base/San Total	61.5	63.7	34.9	20.2	37.2	10.7
Base	61.1	64.4	34.0	24.7	37.9	12.0
Base/San	64.7	62.0	38.2	18.6	37.1	10.3
Control	58.7	64.9	32.8	17.3	36.7	9.8
Water Total	65.3	64.5	38.7	21.4	38.5	10.6
Water	66.8	65.1	39.1	25.7	36.3	12.1
Water control	63.8	64.0	38.3	17.2	40.7	9.2

* Among students who treat water

† Among students who claim to know how to use WaterGuard

Table 13: Student absenteeism and primary causes									
	Absenteeism		Reasons for missing school*†						
	Reported absence in past 2 weeks	# of days missed*							
	%	mean	Diarrhea	Malaria	Cough	Headache	Fetching water	Hygiene/ sanitation related	Caring for family member
	%	mean	%	%	%	%	%	%	%
TOTAL	22.9	2.3	8.1	33.9	8.4	43.3	2.1	7.6	23.0
Kisumu/Nyando	20.8	2.9	3.4	29.7	8.3	43.6	0.0	15.4	15.4
Kadibo	33.9	2.4	0.0	42.1	13.4	28.5	0.0	0.0	25.0
Miwani	19.6	1.9	6.0	28.8	4.8	56.6	0.0	28.6	14.3
Muhoroni	14.8	3.6	2.6	23.3	9.0	38.6	0.0	0.0	0.0
Rachuonyo	19.1	2.0	10.3	39.4	6.2	37.5	0.0	9.5	15.1
East Karachuonyo	16.1	2.1	10.5	21.9	5.4	52.4	0.0	0.0	5.6
Kabondo	24.1	1.8	9.9	69.8	7.6	11.5	0.0	16.7	22.2
Suba	29.6	2.3	9.9	31.6	11.1	49.4	5.0	2.0	33.7
Central	25.3	2.3	3.1	32.4	13.4	49.3	0.0	6.3	43.8
Gwasssi	31.3	2.4	18.6	24.4	9.8	49.9	11.1	0.0	22.2
Lambwe	32.7	2.0	5.0	42.5	9.8	49.0	3.1	0.0	36.5
Base/San Total	22.7	2.3	8.0	36.3	9.2	39.8	0.7	8.1	24.3
Base	22.8	2.3	7.7	31.2	8.1	50.1	0.0	5.3	26.3
Base/San	21.3	2.2	9.0	36.9	12.7	39.2	0.0	10.7	25.0
Control	24.0	2.3	7.1	40.8	6.7	30.0	2.1	8.3	21.5
Water Total	23.2	2.4	8.4	28.8	7.1	50.8	8.3	8.3	18.8
Water	22.4	2.4	7.8	32.3	8.4	50.9	16.7	16.7	25.0
Water control	24.1	2.3	9.0	25.3	5.8	50.7	0.0	0.0	12.5

* Among students reporting absence
† Responses are not mutually exclusive

Table 14: Student latrine perceptions and attitudes

	Latrine perceptions			Reasons students experienced discomfort using school latrines*				
	Students reporting discomfort using latrines	Students reporting very bad smell at latrines	Students reporting very dirty latrines	Bad smell/full	Dirty/flies	Fear getting sick	Too many people	Fear falling inside
	%	%	%	%	%	%	%	%
TOTAL	47.1	51.7	25.0	77.8	68.9	16.3	13.0	5.8
Kisumu/Nyando	59.4	61.8	37.7	80.9	84.5	24.7	19.2	7.2
Kadibo	63.2	69.9	48.5	65.8	83.4	18.2	10.6	9.5
Miwani	75.1	63.8	49.3	93.5	93.9	29.1	34.1	9.0
Muhoroni	40.8	55.1	19.4	76.0	75.2	23.7	8.3	3.9
Rachuonyo	39.1	43.5	13.7	66.2	57.8	12.1	6.4	5.2
East Karachuonyo	32.8	45.7	13.7	69.5	54.3	12.3	9.2	4.0
Kabondo	49.9	39.8	13.6	60.7	63.9	11.7	1.5	7.2
Suba	45.2	52.1	26.8	89.0	67.5	13.3	15.3	5.4
Central	40.9	46.5	21.6	90.7	55.3	13.8	25.9	8.2
Gwasssi	53.8	63.2	42.0	88.4	85.8	8.8	14.5	4.1
Lambwe	37.0	41.4	8.8	87.3	54.2	19.9	1.5	3.8
Base/San Total	50.0	52.5	26.7	78.8	71.1	17.2	13.1	6.1
Base	47.6	52.6	23.8	80.6	69.6	13.1	12.6	6.9
Base/San	52.7	56.0	30.5	80.9	74.1	14.1	15.2	8.2
Control	49.8	49.1	25.9	75.1	69.8	24.1	11.6	3.2
Water Total	40.8	50.0	21.4	75.6	64.0	14.2	12.9	5.4
Water	43.0	48.6	26.0	84.7	68.9	13.0	15.7	4.3
Water control	38.6	51.4	16.8	66.9	59.3	15.2	10.1	6.4

* Among students expressing discomfort in using latrines. Responses are not mutually exclusive.

Table 15: Student latrine use					
	Home sanitation	Latrine use at HOME*		Latrine use at SCHOOL	
	Has latrine at home	Always use latrine to defecate	Always use latrine to urinate	Always use latrines to defecate	Always use latrines to urinate
	%	%	%	%	%
TOTAL	67.7	77.9	41.8	72.2	66.5
Kisumu/Nyando	74.6	76.2	36.4	65.7	57.3
Kadibo	87.9	67.4	12.2	71.8	44.7
Miwani	56.2	66.8	25.2	66.3	49.7
Muhoroni	86.7	90.4	61.2	61.8	72.3
Rachuonyo	80.1	88.8	46.2	79.2	78.3
East Karachuonyo	75.7	91.9	60.3	81.6	80.8
Kabondo	87.9	83.4	21.7	75.2	73.9
Suba	45.9	66.0	41.6	70.0	60.8
Central	52.0	80.9	59.8	71.3	73.2
Gwasssi	37.6	63.6	26.9	63.7	48.1
Lambwe	51.0	48.8	39.0	78.5	64.1
Base/San Total	67.4	77.6	38.8	71.1	64.5
Base	66.6	79.8	41.9	72.2	68.4
Base/San	71.9	77.0	39.8	68.1	64.2
Control	63.8	76.0	34.9	73.0	61.1
Water Total	68.5	78.8	48.5	74.7	70.7
Water	67.6	76.9	51.5	71.2	69.3
Water control	69.3	80.4	45.7	78.0	72.0

* Among students who have a latrine at home

Table 16: Student handwashing knowledge and practices					
	Reported handwashing at key times		Reported availability of soap & water at school*		Handwashing indicators
	Before eating	After using latrine	Soap always available	Water always available	Handwashing observation score (0 to 6)†
	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>mean</i>
TOTAL	94.1	79.8	27.4	13.9	3.8
Kisumu/Nyando	94.3	87.5	15.3	16.4	3.9
Kadibo	98.0	87.8	2.6	9.5	3.7
Miwani	92.6	89.7	25.0	10.5	3.6
Muhoroni	94.1	85.1	15.3	26.5	4.4
Rachuonyo	93.6	80.1	29.6	14.2	3.3
East Karachuonyo	94.0	77.9	36.0	15.7	3.3
Kabondo	92.8	83.9	20.4	11.6	3.4
Suba	94.6	72.2	33.4	10.9	4.2
Central	92.1	74.9	11.1	6.8	3.7
Gwasssi	96.2	59.4	50.0	2.8	4.1
Lambwe	95.6	89.6	57.3	30.2	4.9
Base/San Total	94.1	78.7	23.4	14.8	3.8
Base	92.8	78.1	9.4	16.4	3.8
Base/San	94.7	78.0	29.3	15.9	3.8
Control	94.7	80.0	33.7	12.3	3.8
Water Total	94.3	82.3	34.6	11.8	3.8
Water	95.2	83.9	49.6	8.5	3.8
Water control	93.5	80.8	23.7	15.0	3.7

* Among students aware of a handwashing station at school
† Among students willing to demonstrate handwashing. One point was awarded for the demonstration of each of six steps for proper handwashing.

	Respondent characteristics		Characteristics of the household				Characteristics of school-aged children	
	% female respondents	Age of the respondent	# of people in compound	# of people in household	# of school-aged children in household	# of children under 5 in household	School-aged children that are currently enrolled	School-aged children that are orphans
	%	median	median	median	median	median	%	%
TOTAL	80.9		7	5	2	1	97.9	29.0
Kisumu/Nyando	81.2	33.0	7	5	2	1	97.9	21.6
Kadibo	82.7	35.5	7	5	2	0.5	97.8	24.0
Miwani	76.4	36.0	8	5	2	1	98.0	22.4
Muhoroni	86.5	30.0	6	5	2	1	97.8	18.6
Rachuonyo	81.8	35.0	7	5	2	1	98.1	34.2
East Karachuonyo	83.6	35.3	7	5	2	1	98.1	36.1
Kabondo	78.9	33	7	6	2	1	98.1	31.4
Suba	79.6	33.0	7	6	2	1	97.7	30.4
Central	77.7	32.3	7	5	2	1	97.2	32.7
Gwassi	79.5	33	7	6	2	1	97.2	26.3
Lambwe	82.0	30	7	6	2	1	99.0	33.6
Base/San Total	80.7	35.0	7	5	2	1	97.8	28.0
Base only	80.2	33.0	7	6	2	1	98.0	27.1
Base + San	82.1	34.0	7	5	2	1	97.9	28.6
Base/San Control	79.7	35.0	7	5	2	1	97.3	28.3
Water Total	81.6	33.3	7	5	2	1	98.3	31.5
Water	81.5	34.5	7	5	2	1	98.3	30.8
Water control	81.8	33.0	7	5	2	1	98.4	32.3

	Highest level of education completed by male head of household						Highest level of education completed by female head of household					
	no education	some primary education	finished primary	some secondary education	finished secondary	some tertiary	no education	some primary education	finished primary	some secondary education	finished secondary	Some tertiary
	%	%	%	%	%	%	%	%	%	%	%	%
TOTAL	7.7	22.1	29.8	13.1	19.8	7.5	18.3	35.1	26.3	10.8	7.9	1.6
Kisumu/Nyando	10.6	16.2	24.7	15.2	22.2	11.0	18.0	27.4	26.6	15.3	9.7	3.1
Kadibo	6.8	17.7	32.8	10.3	22.7	9.7	16.2	30.2	31.8	12.4	8.3	1.1
Miwani	19.5	12.6	26.5	9.4	21.1	10.9	27.3	25.2	28.7	9.1	7.0	2.7
Muhoroni	1.4	20.1	15.9	27.1	23.4	12.1	6.6	28.3	19.6	25.9	14.4	5.2
Rachuonyo	4.5	19.7	31.5	15.0	23.4	6.0	15.3	33.6	31.0	11.0	8.4	0.8
East Karachuonyo	4.2	20.3	31.2	14.6	23.5	6.1	15.3	36.4	30.6	10.5	6.6	0.6
Kabondo	5.0	18.8	31.9	15.5	23.2	5.7	15.2	29.3	31.6	11.7	11.2	1.1
Suba	8.6	31.3	33.3	8.5	12.8	5.6	22.3	45.2	20.3	5.9	5.4	1.0
Central	6.1	36.1	30.5	10.7	9.4	7.2	23.0	42.4	21.9	5.8	5.0	1.9
Gwasssi	10.8	30.5	32.8	4.6	14.1	7.2	23.5	46.8	20.2	5.0	4.2	0.2
Lambwe	8.1	26.9	37.4	11.8	14.7	1.1	19.7	46.1	18.4	7.3	7.7	0.9
Base/San Total	8.3	21.6	29.4	12.9	20.1	7.6	18.7	34.5	26.4	11.1	7.6	1.8
Base only	6.6	22.3	27.7	15.5	19.2	8.7	17.9	33.8	25.1	13.1	7.7	2.3
Base + San	7.8	20.7	33.2	11.2	20.4	6.6	19.0	35.0	26.8	10.8	7.2	1.2
Base/San Control	10.6	21.8	27.3	12.1	20.7	7.5	19.2	34.6	27.4	9.2	7.8	1.8
Water Total	6.0	23.5	30.9	13.5	19.0	7.2	17.2	36.7	26.0	10.2	8.8	1.1
Water	6.9	23.0	29.7	12.9	19.7	7.8	17.2	34.0	26.1	10.6	10.9	1.2
Water control	5.1	23.9	32.0	14.1	18.3	6.5	17.2	39.5	25.9	9.7	6.7	1.0

	School-aged children ill in past week with:			Absenteeism	Reported reasons for school absence in past 2 weeks*				
	Diarrhea	Cough	Fever	School-aged children absent in prior 2 weeks	Illness	Care for Siblings	Care for sick family members	Chores	Work
	%	%	%	%	%	%	%	%	%
TOTAL	7.3	26.8	20.0	16.6	67.0	3.3	2.3	5.6	2.6
Kisumu/Nyando	11.7	29.0	18.0	15.6	67.2	4.3	2.2	5.4	3.6
Kadibo	3.5	23.5	23.4	12.1	59.9	0.0	3.3	1.6	0.0
Miwani	22.5	36.3	23.7	21.1	78.4	4.7	2.1	8.5	7.4
Muhoroni	3.4	23.2	6.0	10.8	53.5	7.1	1.4	3.1	0.0
Rachuonyo	3.6	23.5	15.0	10.2	67.1	1.7	2.0	6.7	0.6
East Karachuonyo	3.3	22.0	14.2	9.2	68.3	1.2	3.0	5.6	0.3
Kabondo	4.0	25.8	16.2	11.8	65.2	2.6	0.2	8.6	1.3
Suba	7.3	28.6	28.3	25.5	66.6	4.1	2.7	4.5	4.1
Central	8.3	30.4	29.5	27.0	70.5	3.8	1.7	3.3	3.7
Gwasssi	6.5	23.7	26.5	24.9	60.7	6.4	4.1	6.4	3.8
Lambwe	7.3	34.0	29.8	24.6	70.9	0.9	2.0	3.1	4.9
Base/San Total	7.6	26.2	19.9	16.3	67.2	3.2	2.5	6.3	2.5
Base only	5.5	25.5	17.2	15.4	69.1	4.2	1.5	6.0	1.5
Base + San	9.4	27.8	22.6	15.7	64.6	2.7	2.7	4.3	3.1
Base/San Control	7.9	25.4	20.0	17.7	68.0	2.8	3.2	8.6	2.8
Water Total	6.6	28.3	20.3	17.5	66.6	3.3	1.9	4.0	3.1
Water	9.2	29.4	22.7	19.4	67.5	5.9	2.5	4.9	2.4
Water control	4.0	27.1	17.8	15.6	65.7	0.8	1.4	3.1	3.7

Table 20: Children under five illnesses and clinic visits					
	Children under 5 that were ill in past week with:			Clinic Visits for children under the age of five	
	Diarrhea	Cough	Fever	Visited health clinic in prior 2 weeks	Clinic visits due to diarrhea or vomiting
	%	%	%	%	%
TOTAL	19.7	39.3	40.9	31.6	35.4
Kisumu/Nyando	22.1	39.7	40.2	36.4	36.1
Kadibo	11.3	42.1	43.9	29.7	32.1
Miwani	24.9	31.1	42.5	40.7	34.0
Muhoroni	26.8	49.7	34.2	35.7	42.1
Rachuonyo	15.1	38.3	34.1	29.6	33.1
East Karachuonyo	15.3	38.5	34.6	29.5	32.6
Kabondo	14.8	38.1	33.4	29.7	33.8
Suba	22.7	39.9	50.1	29.0	37.6
Central	25.0	41.0	48.9	30.5	36.9
Gwasssi	24.3	35.6	50.3	25.5	43.4
Lambwe	17.3	45.3	51.1	32.6	30.0
Base/San Total	19.1	38.6	40.4	32.7	34.1
Base only	16.8	37.8	38.8	32.4	34.1
Base + San	21.9	40.2	41.3	31.5	37.0
Base/San Control	18.7	37.8	41.1	34.1	31.3
Water Total	21.2	41.1	42.4	28.6	38.9
Water	23.2	41.0	44.0	30.5	39.9
Water control	19.1	41.2	40.8	26.8	37.9

Table 21: Household water availability and water collection costs				
	# water sources used	# sources used for drinking	Daily cost (KSH) of water*	# months using unimproved source
	<i>median</i>	<i>median</i>	<i>median</i>	<i>median</i>
TOTAL	2.0	1.0	500	8.7
Kisumu/Nyando	1.0	1.0	500	2.4
Kadibo	2.0	1.0	67	0.0
Miwani	2.0	1.0	550	3.0
Muhoroni	1.0	1.0	750	6.5
Rachuonyo	2.0	1.0	1,000	11.0
East Karachuonyo	2.0	1.0	1,000	8.2
Kabondo	2.0	1.0	2,000	12.0
Suba	1.0	1.0	67	9.6
Central	1.5	1.0	67	9.6
Gwasssi	1.0	1.0	50	9.6
Lambwe	1.5	1.0	67	9.6
Base/San Total	2.0	1.0	500	8.0
Base only	2.0	1.0	500	8.0
Base + San	2.0	1.0	200	8.0
Base/San Control	1.5	1.0	500	8.0
Water Total	2.0	1.0	950	9.5
Water	2.0	1.0	1,000	11.0
Water control	2.0	1.0	783	9.0
* Among those that pay				

Table 22: Water scarcity and primary response to scarcity for drinking and cooking						
	Water Scarcity	Primary response to water scarcity for DRINKING & COOKING				
	# months of water scarcity in past year	Do without	Go further to collect water	Use poorer quality source	Pay more for water	Send more people to get water
	<i>median</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>
TOTAL	4.5	12.3	73.7	22.5	22.7	15.8
Kisumu/Nyando	3.0	8.5	56.6	8.6	16.4	28.7
Kadibo	4.0	25.8	69.4	31.9	30.5	15.9
Miwani	5.5	10.3	96.1	6.5	11.5	7.8
Muhoroni	2.0	3.1	41.7	2.5	13.8	38.4
Rachuonyo	5.0	14.1	81.1	21.3	24.5	8.5
East Karachuonyo	5.0	15.9	79.8	22.4	26.5	7.6
Kabondo	5.0	4.4	88.5	15.2	13.3	13.4
Suba	5.0	12.6	76.1	33.0	24.7	16.0
Central	6.5	13.8	81.3	34.1	23.7	21.2
Gwasssi	3.0	8.8	71.1	22.7	21.6	7.7
Lambwe	4.5	16.1	74.5	46.4	31.0	19.2
Water Total	4.5	12.3	73.7	22.5	22.7	15.8
Water	4.5	13.8	66.3	25.5	25.4	17.0
Water control	4.5	10.8	81.2	19.5	20.0	14.5

Table 23: Primary response to water scarcity for hygiene and water for productive uses

	Primary response to water scarcity for HYGIENE					Primary response to water scarcity for PRODUCTIVE USE (gardening, crops)				
	Do without	Go further to collect water	Use poorer quality source	Pay more for water	Send more people to get water	Do without	Go further to collect water	Use poorer quality source	Pay more for water	Send more people to get water
	%	%	%	%	%	%	%	%	%	%
TOTAL	14.8	69.5	27.7	20.4	18.2	17.8	15.0	9.3	6.2	9.9
Kisumu/Nyando	8.4	48.5	18.7	13.3	34.9	7.2	33.1	14.1	5.5	21.8
Kadibo	30.1	33.2	44.8	21.0	34.3	24.9	26.6	26.3	14.1	9.0
Miwani	3.8	90.8	46.7	3.8	19.4	2.6	80.4	45.4	0.0	3.9
Muhoroni	3.5	40.8	3.2	13.8	39.5	3.5	21.4	1.6	4.7	30.5
Rachuonyo	19.1	75.9	29.1	22.3	11.2	10.0	3.3	1.8	0.5	0.3
East Karachuonyo	21.6	74.9	30.4	24.9	9.9	9.4	2.8	1.2	0.6	0.3
Kabondo	5.4	81.3	22.2	7.9	18.8	13.3	6.3	5.4	0.0	0.0
Suba	13.7	75.6	31.8	22.7	15.5	33.8	16.9	15.0	13.4	13.5
Central	14.7	82.0	32.3	23.0	20.8	34.4	17.2	15.7	16.1	17.3
Gwasssi	11.4	69.4	22.2	18.5	6.8	31.6	17.0	9.3	9.6	5.6
Lambwe	15.5	73.9	45.2	28.5	19.2	35.9	16.1	22.3	14.2	18.6
Water Total	14.8	69.5	27.7	20.4	18.2	17.8	15.0	9.3	6.2	9.9
Water	15.2	62.1	33.2	23.4	19.4	21.4	17.9	13.1	6.4	10.8
Water control	14.3	76.9	22.2	17.4	16.9	14.1	12.0	5.6	6.1	9.0

Table 24: Types of water sources used by households at any point during the year								
	Use of specific water sources (for any use) any time during the year							
	Tap at school	Tap at home	Community Tap	Open well	Protected Well	Surface Water	Rainwater	Water vendor
	%	%	%	%	%	%	%	%
TOTAL	0.3	1.6	3.4	7.3	30.6	64.1	15.9	0.7
Kisumu/Nyando	0.9	4.1	5.0	6.0	45.9	44.8	7.7	0.0
Kadibo	2.4	1.7	0.2	10.0	67.0	19.6	5.5	0.0
Miwani	0.0	0.5	10.7	6.5	53.5	48.2	11.7	0.0
Muhoroni	1.0	11.0	1.0	2.3	18.8	60.0	3.9	0.0
Rachuonyo	0.0	0.5	1.2	13.9	15.4	76.3	19.5	1.4
East Karachuonyo	0.0	0.5	1.7	10.9	19.7	72.9	28.0	1.9
Kabondo	0.0	0.5	0.6	18.5	8.8	81.6	6.3	0.6
Suba	0.0	0.1	4.3	0.5	32.8	69.8	20.2	0.6
Central	0.1	0.0	2.2	0.4	34.6	69.6	25.7	1.6
Gwasssi	0.0	0.2	7.1	0.3	27.5	72.0	18.5	0.0
Lambwe	0.0	0.0	2.6	1.1	39.0	66.8	16.3	0.4
Base/San Total	0.4	1.6	3.4	8.0	34.1	59.6	14.5	0.5
Base only	0.4	0.9	5.6	9.4	28.1	62.8	11.5	0.8
Base + San	0.0	3.7	1.7	7.8	36.9	55.9	15.0	0.5
Base/San Control	0.8	0.3	2.9	6.7	37.3	60.0	17.0	0.3
Water Total	0.1	1.4	3.4	5.4	21.0	76.5	19.6	1.3
Water	0.0	2.4	3.3	6.3	20.6	76.6	15.9	1.4
Water control	0.1	0.4	3.4	4.5	21.4	76.4	23.2	1.1

Table 25: Primary water source during the dry season											
	Primary water source during the DRY SEASON										
	Tap at school	Tap at home	Community Tap	Open well	Protected Well	Surface Water	Rainwater	Water vendor	No water available	Don't know	Improved Source (total)
	%	%	%	%	%	%	%	%	%	%	%
TOTAL	0.4	1.2	2.5	5.2	28.7	59.7	1.4	0.8	0.0	0.2	27.7
Kisumu/Nyando	1.0	3.5	3.9	5.7	42.5	41.8	1.1	0.0	0.1	0.4	44.7
Kadibo	1.8	1.1	0.6	10.3	69.0	15.3	0.8	0.2	0.2	0.7	61.6
Miwani	0.2	0.2	7.8	6.0	43.8	41.2	0.7	0.0	0.1	0.0	46.3
Muhoroni	1.6	9.8	1.1	1.6	19.7	63.5	2.0	0.0	0.0	0.7	29.3
Rachuonyo	0.0	0.3	0.6	8.7	14.6	72.2	1.8	1.7	0.0	0.1	13.2
East Karachuonyo	0.0	0.3	0.8	8.1	18.3	67.8	2.2	2.3	0.0	0.1	17.0
Kabondo	0.0	0.2	0.4	9.6	8.9	79.1	1.1	0.7	0.0	0.0	7.3
Suba	0.1	0.0	3.1	0.3	31.2	63.5	1.2	0.5	0.0	0.0	27.2
Central	0.0	0.0	0.7	0.0	32.2	64.8	0.9	1.5	0.0	0.0	28.3
Gwasssi	0.2	0.0	5.5	0.5	24.7	68.0	1.1	0.0	0.0	0.0	25.4
Lambwe	0.0	0.0	2.4	0.5	40.1	55.1	1.6	0.3	0.0	0.0	28.8
Base/San Total	0.4	1.2	2.4	5.6	32.3	55.7	1.6	0.6	0.0	0.1	31.7
Base only	0.5	0.7	4.3	5.5	26.7	59.9	1.5	0.9	0.0	0.1	26.7
Base + San	0.1	2.9	0.8	6.5	34.7	52.3	2.0	0.5	0.0	0.2	34.5
Base/San Control	0.7	0.0	2.2	4.9	35.4	55.0	1.3	0.3	0.1	0.0	33.8
Water Total	0.2	1.3	2.5	4.1	19.0	70.4	0.8	1.4	0.0	0.3	16.9
Water	0.0	2.4	2.6	5.7	17.3	69.6	0.5	1.6	0.1	0.2	14.7
Water control	0.3	0.3	2.5	2.5	20.7	71.2	1.0	1.2	0.0	0.4	19.0

Table 26: Primary water source during the rainy season											
	Primary water source during the RAINY SEASON										
	Tap at school	Tap at home	Community Tap	Open well	Protected Well	Surface Water	Rainwater	Water vendor	No water available	Don't know	Improved sources (total)
	%	%	%	%	%	%	%	%	%	%	%
TOTAL	0.1	1.0	0.5	0.5	6.1	10.2	81.6	0.0	0.0	0.2	88.4
Kisumu/Nyando	0.2	2.7	0.3	0.4	6.5	7.3	82.2	0.0	0.0	0.4	91.1
Kadibo	0.6	1.2	0.3	0.3	7.7	2.6	86.5	0.0	0.2	0.7	94.9
Miwani	0.0	0.0	0.2	0.5	8.5	6.9	83.8	0.0	0.0	0.0	91.6
Muhoroni	0.0	7.7	0.2	0.3	2.8	11.5	76.7	0.0	0.0	0.7	87.0
Rachuonyo	0.0	0.1	0.1	0.9	1.8	8.4	88.6	0.0	0.0	0.1	90.5
East Karachuonyo	0.0	0.0	0.1	0.3	2.5	6.6	90.4	0.0	0.0	0.1	92.7
Kabondo	0.0	0.3	0.1	1.9	0.9	11.0	85.7	0.0	0.0	0.0	86.9
Suba	0.1	0.1	1.2	0.0	10.9	15.4	72.3	0.0	0.0	0.0	82.8
Central	0.0	0.0	0.7	0.0	10.8	11.2	77.4	0.0	0.0	0.0	87.2
Gwasssi	0.2	0.2	2.3	0.0	13.0	26.3	58.1	0.0	0.0	0.0	71.2
Lambwe	0.0	0.0	0.0	0.0	7.9	4.0	88.1	0.0	0.0	0.0	95.5
Base/San Total	0.1	0.9	0.4	0.6	7.2	10.1	80.5	0.0	0.0	0.1	88.3
Base only	0.0	0.1	0.3	0.8	5.8	6.8	86.1	0.0	0.0	0.1	91.4
Base + San	0.0	2.5	0.0	0.4	7.0	12.0	77.8	0.0	0.0	0.2	86.7
Base/San Control	0.3	0.2	0.8	0.6	8.9	11.6	77.6	0.0	0.1	0.0	87.1
Water Total	0.0	1.0	0.7	0.2	3.1	10.2	84.6	0.0	0.0	0.3	88.4
Water	0.0	2.0	0.5	0.2	2.6	12.7	81.8	0.0	0.0	0.2	85.8
Water control	0.0	0.0	0.9	0.2	3.5	7.7	87.3	0.0	0.0	0.4	90.9

Table 27: Household distance to primary water source				
	Distance to water source (meters)		Time to water source (minutes)	
	Dry season	Rainy season	Dry season	Rainy season
	<i>median</i>	<i>median</i>	<i>median</i>	<i>Median</i>
TOTAL	650.0	425.5	30.0	20.0
Kisumu/Nyando	200.0	200.0	15.0	15.0
Kadibo	100.0	100.0	10.0	10.0
Miwani	275.0	300.0	19.4	19.4
Muhoroni	250.0	200.0	20.0	20.0
Rachuonyo	875.0	500.0	35.0	20.0
East Karachuonyo	900.0	356.3	30.0	15.0
Kabondo	825.0	500.0	37.5	30.0
Suba	900.0	600.1	32.5	30.0
Central	1000.0	725.3	36.3	27.5
Gwasssi	525.0	450.3	30.0	30.0
Lambwe	1000.0	800.0	35.0	30.0
Base/San Total	500.0	400.0	25.0	20.0
Base only	675.0	500.0	30.0	20.0
Base + San	500.0	300.0	20.0	15.0
Base/San Control	500.0	350.0	25.0	20.0
Water Total	1000.0	650.0	52.5	30.0
Water	1000.0	800.0	60.0	30.0
Water control	1000.0	500.0	45.0	25.0

Table 28: Household water collection and household members that collect drinking water							
	Water Collection	Household members who collected water on previous day					
	# trips to collect drinking water on previous day*						
		Female adult	Male adult	Girl child	Boy child	Housegirl	Houseboy
	<i>mean</i>	%	%	%	%	%	%
TOTAL	3.4	78.9	5.6	37.5	15.6	1.5	1.1
Kisumu/Nyando	3.9	81.9	6.7	41.9	14.5	3.3	2.0
Kadibo	5.1	69.8	1.7	39.8	13.3	5.4	1.6
Miwani	3.6	91.5	9.0	40.9	16.5	0.2	0.2
Muhoroni	3.6	77.1	7.6	45.4	12.3	6.5	5.3
Rachuonyo	3.7	72.7	3.9	36.8	20.4	0.8	0.5
East Karachuonyo	3.4	71.0	4.5	36.2	21.4	0.3	0.3
Kabondo	4.2	75.4	3.1	37.8	18.9	1.5	0.7
Suba	2.6	83.8	6.6	34.2	10.6	0.7	1.2
Central	2.3	79.7	7.7	33.1	10.0	0.3	1.3
Gwasssi	2.8	87.2	2.8	31.8	9.1	0.4	0.4
Lambwe	2.5	83.4	11.5	39.3	13.9	1.7	2.3
Base/San Total	3.5	79.6	5.5	37.1	14.8	1.5	1.1
Base only	3.7	78.1	6.0	37.2	16.9	1.7	1.8
Base + San	3.5	81.1	4.9	36.7	12.8	1.4	0.8
Base/San Control	3.3	79.6	5.5	37.3	14.9	1.3	0.8
Water Total	3.3	76.9	6.0	38.7	17.6	1.7	1.2
Water	3.0	81.6	6.9	37.4	13.8	1.1	0.7
Water control	3.6	72.2	5.1	40.0	21.4	2.2	1.7

* Among those who made at least 1 trip

	Households with rainwater tank	Tanks in working condition*	Rainwater tank capacity* (liters)
	<i>%</i>	<i>%</i>	<i>Median</i>
TOTAL	6.4	92.5	500.0
Kisumu/Nyando	10.7	97.1	400.0
Kadibo	25.3	100.0	200.0
Miwani	3.4	97.2	1500.0
Muhoroni	9.1	94.2	1230.0
Rachuonyo	4.6	95.6	500.0
East Karachuonyo	4.3	94.0	1500.0
Kabondo	5.0	98.1	200.0
Suba	4.0	83.9	525.0
Central	2.3	77.8	520.0
Gwassi	2.1	100.0	300.0
Lambwe	8.9	73.7	565.0
Base/San Total	5.9	93.7	500.0
Base only	3.9	97.4	1000.0
Base + San	5.6	88.7	565.0
Base/San Control	8.1	94.3	225.0
Water Total	7.8	90.3	400.0
Water	7.1	93.1	620.0
Water control	8.5	87.8	300.0
*Among households with a rainwater storage tank			

Table 30: Household reported water treatment							
	Water Treatment	Use of specific methods of treatment*					
	Households that treat drinking water	WaterGuard	Boil	Filter/ Sedimentation	Chlorine powder (or other chlorine-based)	PUR	Other
	%	%	%	%	%	%	%
TOTAL	53.3	42.1	52.7	18.2	12.9	3.9	1.5
Kisumu/Nyando	52.9	46.1	52.8	14.9	16.9	7.1	1.4
Kadibo	59.0	35.8	37.7	16.2	29.3	2.9	0.8
Miwani	47.5	59.5	48.5	18.3	19.5	14.3	1.4
Muhoroni	55.6	35.7	70.5	9.0	3.4	0.5	1.9
Rachuonyo	61.0	43.5	53.4	19.0	12.2	1.8	0.8
East Karachuonyo	69.1	47.0	49.1	22.6	16.0	2.2	0.8
Kabondo	48.6	38.1	59.9	13.4	6.3	1.1	0.7
Suba	44.0	36.1	51.9	20.8	9.6	3.0	2.5
Central	50.2	35.5	61.0	18.3	8.1	0.7	2.8
Gwasssi	33.8	36.9	45.2	15.4	9.1	4.2	4.0
Lambwe	52.2	35.4	51.3	32.1	12.0	3.9	0.0
Base/San Total	52.1	41.2	53.1	17.6	13.3	4.2	1.5
Base only	53.1	39.9	52.9	16.4	11.4	2.7	1.6
Base + San	52.0	41.7	52.5	17.8	15.2	5.5	2.2
Base/San Control	51.2	42.2	53.8	18.5	13.4	4.5	0.6
Water Total	56.4	44.4	51.8	20.0	11.7	2.9	1.5
Water	56.4	46.1	51.1	19.7	10.9	3.8	0.4
Water control	56.3	42.6	52.5	20.2	12.6	2.1	2.6

* Among those who treat water. Responses are not mutually exclusive.

Table 31: WaterGuard awareness and source of WaterGuard information								
	WaterGuard awareness	Have heard about WaterGuard from specific sources*						
	Respondents that have heard of WaterGuard	Children in school	CARE/ SANA	Other NGO	Health facility/ Health Officer/ Nurse	Neighbor / family / friend	Teacher	Other
	%	%	%	%	%	%	%	%
TOTAL	84.2	2.9	7.6	9.1	28.1	21.4	0.6	73.7
Kisumu/Nyando	85.4	5.9	14.3	9.3	24.7	14.9	1.2	75.7
Kadibo	87.7	0.4	3.0	2.5	23.0	23.4	0.5	79.5
Miwani	84.9	10.5	30.8	13.6	21.7	13.4	2.4	80.6
Muhoroni	84.2	3.8	0.6	9.0	30.1	10.2	0.0	65.9
Rachuonyo	90.2	1.7	1.6	7.2	13.8	19.5	0.4	88.7
East Karachuonyo	92.1	1.4	1.2	7.0	11.3	16.1	0.0	88.8
Kabondo	87.2	2.3	2.1	7.4	17.6	24.8	1.0	88.6
Suba	75.5	1.2	7.8	11.1	49.3	30.6	0.3	53.1
Central	77.0	1.4	3.3	11.3	50.7	30.3	0.7	57.7
Gwasssi	71.1	1.3	6.0	12.0	46.8	29.6	0.2	49.0
Lambwe	80.3	0.6	16.0	9.5	51.7	32.6	0.0	53.9
Base/San Total	83.5	3.2	8.7	8.9	28.3	21.7	0.8	72.7
Base only	82.3	3.2	8.7	10.2	29.5	24.1	0.7	72.2
Base + San	84.5	2.3	7.4	6.3	28.0	21.9	0.8	71.3
Base/San Control	83.7	4.2	9.9	10.2	27.3	19.0	0.9	74.5
Water Total	86.0	1.9	4.6	9.6	27.6	20.5	0.1	76.5
Water	86.2	2.9	6.8	10.4	29.2	20.1	0.1	73.0
Water control	85.8	1.0	2.4	8.7	26.0	21.0	0.1	80.0

*Among respondents that have heard of WaterGuard

Table 32: WaterGuard knowledge, usage, and detectable chlorine				
	WaterGuard knowledge and usage (unconditional analysis)			
	Respondents who have ever used WaterGuard	Respondents who have ever purchased WaterGuard	Respondents with a bottle of WaterGuard in the home	Respondents with detectable chlorine residual*
	%	%	%	%
TOTAL	40.2	35.5	15.9	4.1
Kisumu/Nyando	41.3	32.7	17.5	5.9
Kadibo	45.6	24.4	14.1	4.0
Miwani	37.0	33.2	22.5	10.3
Muhoroni	43.8	38.4	13.4	1.3
Rachuonyo	45.2	42.6	15.2	3.4
East Karachuonyo	53.4	50.2	16.7	2.6
Kabondo	32.4	30.8	13.0	4.6
Suba	32.7	29.6	15.0	3.2
Central	35.6	34.1	19.9	4.5
Gwasssi	25.9	22.4	10.5	2.8
Lambwe	39.8	35.4	15.9	2.3
Base/San Total	38.7	33.9	15.2	4.2
Base only	38.4	35.2	15.2	3.4
Base + San	38.4	32.6	15.3	4.2
Base/San Control	39.3	34.1	15.3	5.1
Water Total	44.1	39.7	17.7	3.9
Water	42.5	39.2	18.2	5.4
Water control	45.8	40.1	17.1	2.4
*Chlorine residual tested in all households that reported treating drinking water with chlorine-based treatment				

Table 33: Correct WaterGuard usage			
	Correct knowledge of WaterGuard treatment methods*		
	Dosage for clear water	Dosage for turbid water	Waiting time after dosage
	<i>%</i>	<i>%</i>	<i>%</i>
TOTAL	71.7	30.7	64.4
Kisumu/Nyando	73.9	28.8	72.7
Kadibo	52.3	7.0	63.6
Miwani	82.1	21.5	71.7
Muhoroni	79.8	55.9	81.3
Rachuonyo	71.0	30.6	60.8
East Karachuonyo	70.6	32.0	57.9
Kabondo	71.6	28.4	65.2
Suba	70.3	32.7	60.0
Central	75.6	28.7	60.7
Gwasssi	61.5	30.8	53.0
Lambwe	77.5	40.5	69.7
Base/San Total	71.6	30.5	64.4
Base only	79.3	32.2	69.3
Base + San	63.8	28.1	59.6
Base/San Control	71.7	31.1	64.3
Water Total	72.2	31.2	64.4
Water	72.6	32.9	64.2
Water control	71.8	29.5	64.5

* Among those who claim to know how to use WaterGuard

Table 34: WaterGuard purchases and reasons for not purchasing							
	WaterGuard Purchases	Specific reasons for not buying WaterGuard †					
	Have purchased WaterGuard*	Too expensive	No money	Bad taste/ Bad smell	Don't need	Too difficult to use	Don't know where to buy
	%	%	%	%	%	%	%
TOTAL	88.0	1.2	26.2	23.4	4.4	1.0	3.9
Kisumu/Nyando	79.8	2.0	12.1	19.7	3.6	0.3	0.6
Kadibo	56.3	3.2	12.1	4.0	3.2	0.9	0.0
Miwani	88.1	0.0	20.0	17.8	2.2	0.0	0.0
Muhoroni	87.5	3.0	3.6	36.3	5.4	0.0	1.8
Rachuonyo	94.1	1.4	43.3	21.4	4.8	0.0	6.0
East Karachuonyo	93.6	0.0	37.8	25.0	3.8	0.0	6.1
Kabondo	94.8	5.6	59.3	11.1	7.4	0.0	5.6
Suba	89.3	0.0	25.8	30.8	5.0	3.3	6.1
Central	95.7	0.0	0.0	55.6	0.0	0.0	0.0
Gwasssi	84.9	0.0	30.4	19.6	7.1	7.1	10.7
Lambwe	88.3	0.0	35.0	31.7	5.0	0.0	3.3
Base/San Total	87.1	1.4	23.3	24.2	4.8	1.5	5.3
Base only	90.3	0.0	20.5	30.3	1.5	4.5	6.8
Base + San	85.6	4.0	29.3	10.1	4.3	0.0	5.3
Base/San Control	85.4	0.0	19.8	32.7	8.0	0.4	3.8
Water Total	90.6	1.0	32.4	21.6	3.4	0.0	1.0
Water	91.8	0.9	37.0	23.1	0.9	0.0	0.0
Water control	89.4	1.0	27.1	19.8	6.3	0.0	2.1
* Among those that have heard of WaterGuard							
† Among those who have heard of it, but have not purchased it before. Responses are not mutually exclusive.							

Table 35: Presence of sanitation facility at home and type of facility							
	Sanitation Facilities	Type of sanitation facility observed at household*					
	Households reporting a working latrine	Flush toilet	Pit latrine	VIP latrine	No facility	Above ground vault	Other latrine
	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>
TOTAL	42.3	1.2	81.4	12.5	0.4	2.8	1.6
Kisumu/Nyando	48.7	3.8	75.7	10.6	0.1	6.2	3.5
Kadibo	73.3	0.0	93.2	3.4	0.3	0.6	2.4
Miwani	28.2	0.7	65.3	13.3	0.0	14.2	6.5
Muhoroni	57.4	10.9	75.6	12.8	0.0	0.2	0.5
Rachuonyo	51.7	0.0	84.3	11.9	1.0	1.8	1.0
East Karachuonyo	49.9	0.0	83.4	13.9	0.5	1.0	1.2
Kabondo	54.4	0.0	85.8	8.8	1.9	3.0	0.6
Suba	24.0	0.0	84.1	15.5	0.0	0.3	0.2
Central	25.3	0.0	86.6	13.4	0.0	0.0	0.0
Gwasssi	22.6	0.0	82.5	17.1	0.0	0.0	0.4
Lambwe	24.4	0.0	83.3	15.6	0.0	1.0	0.0
Base/San Total	41.8	1.3	80.2	12.9	0.4	3.2	2.0
Base only	42.2	1.0	79.5	15.1	0.2	2.8	1.6
Base + San	42.5	2.5	79.6	9.8	0.7	4.2	3.3
Base/San Control	40.8	0.4	81.6	13.7	0.5	2.7	1.1
Water Total	43.8	1.2	84.6	11.7	0.4	1.7	0.5
Water	44.0	2.2	84.3	10.6	0.1	2.3	0.5
Water control	43.6	0.1	84.9	12.8	0.7	1.1	0.4

* Among households reporting sanitation facilities

Table 36: Household latrine use by specific age groups			
	Households reporting children who don't regularly use a latrine*		
	Children < 2	Children < 5	Children 5 - 15
	<i>%</i>	<i>%</i>	<i>%</i>
TOTAL	39.9	68.6	4.0
Kisumu/Nyando	59.9	54.2	4.8
Kadibo	45.0	60.9	4.9
Miwani	44.8	77.5	7.1
Muhoroni	89.0	21.7	1.9
Rachuonyo	30.6	75.1	1.5
East Karachuonyo	29.0	73.8	2.3
Kabondo	32.8	77.1	0.4
Suba	29.0	76.8	6.6
Central	18.1	87.8	0.0
Gwassi	29.4	73.6	14.4
Lambwe	44.1	65.9	4.1
Base/San Total	39.6	67.5	4.6
Base only	46.8	64.7	0.9
Base + San	37.2	62.8	7.9
Base/San Control	34.3	75.3	5.2
Water Total	40.6	71.5	2.4
Water	36.8	72.7	1.8
Water control	44.4	70.2	3.1

* Among those with a latrine at home. Responses are not mutually exclusive.

Table 37: Household latrine conditions						
	Households with observed latrine conditions*					
	Smells outside of the latrine	Visible feces and waste paper outside of pit	Many flies	Visible holes in superstructure	Hole between slab and ground	No door
	%	%	%	%	%	%
TOTAL	15.7	8.1	16.1	14.3	8.6	44.4
Kisumu/Nyando	9.4	7.1	15.5	9.9	7.9	26.9
Kadibo	10.8	1.4	9.7	6.6	6.0	38.1
Miwani	11.1	10.8	18.2	16.7	11.8	31.0
Muhoroni	6.1	6.7	16.5	3.6	4.1	12.7
Rachuonyo	18.7	5.0	15.3	16.9	11.3	58.1
East Karachuonyo	12.9	2.8	11.3	13.9	8.1	49.8
Kabondo	27.7	8.5	21.5	21.7	16.3	70.9
Suba	18.8	13.4	17.9	15.8	5.9	46.1
Central	13.6	8.0	13.0	8.5	2.5	38.4
Gwasssi	22.7	19.2	24.1	21.6	6.8	50.7
Lambwe	19.1	11.2	14.8	15.8	8.6	48.6
Base/San Total	16.6	9.0	16.6	15.5	8.5	43.7
Base only	16.8	6.6	16.7	15.5	7.9	40.9
Base + San	15.4	10.6	15.9	16.5	9.4	52.2
Base/San Control	17.7	9.8	17.2	14.4	8.1	38.0
Water Total	13.2	5.9	14.8	11.3	9.0	46.2
Water	14.0	7.0	17.8	9.2	11.4	45.3
Water control	12.3	4.7	11.8	13.4	6.6	47.2

* Among those with a latrine at home

	Household heads reporting washing hands at key times			Indicators of handwashing behaviors	
	After visiting the latrine	After handling dirty things	Before cooking	Handwashing score (0 to 6)*	Have location for handwashing with soap and water †
	%	%	%	mean	%
TOTAL	65.8	60.0	51.1	4.02	49.8
Kisumu/Nyando	69.9	49.4	52.0	4.21	49.3
Kadibo	77.7	55.4	74.4	4.46	39.4
Miwani	63.0	57.1	39.2	3.77	42.4
Muhoroni	73.1	34.2	52.0	4.63	66.7
Rachuonyo	62.7	61.0	46.8	3.63	70.7
East Karachuonyo	66.9	57.1	47.4	3.62	75.4
Kabondo	56.1	67.1	45.9	3.64	63.4
Suba	65.1	70.1	55.5	4.30	24.6
Central	66.3	73.4	54.8	4.39	26.2
Gwassi	65.2	66.0	55.8	4.27	22.2
Lambwe	63.6	72.5	55.9	4.23	26.5
Base/San Total	65.8	59.4	50.6	4.01	49.1
Base only	65.5	57.0	49.5	4.02	51.4
Base + San	66.9	60.1	51.7	3.98	52.1
Base/San Control	64.8	61.0	50.4	4.02	43.7
Water Total	65.8	61.8	52.7	4.05	51.9
Water	65.2	63.8	53.1	4.03	51.7
Water control	66.3	59.7	52.4	4.08	52.0

* Among respondents willing to demonstrate handwashing. One point was awarded for the demonstration of each of six steps for proper handwashing

† Among those willing to demonstrate handwashing

Table 39: Household water storage and water handling practices					
	Observed characteristics of drinking water storage container				Water handling practices
	Traditional clay pot (wide mouth, no tap)	Narrow mouthed vessel	Tap present	Vessel has lid or cover	Respondent dipped hands into the container when retrieving a water sample
	%	%	%	%	%
TOTAL	85.7	5.3	1.2	92.3	92.8
Kisumu/Nyando	89.8	5.2	1.2	94.1	94.3
Kadibo	89.6	6.7	1.9	95.1	92.8
Miwani	92.2	3.2	0.6	93.2	96.7
Muhoroni	86.6	6.8	1.5	94.5	92.3
Rachuonyo	90.8	4.5	1.7	94.6	90.5
East Karachuonyo	93.4	3.4	1.6	96.4	93.0
Kabondo	86.8	6.2	1.7	91.7	86.6
Suba	75.1	6.5	0.8	87.6	94.0
Central	78.5	5.7	0.4	90.1	95.3
Gwasssi	69.6	5.9	0.7	84.1	94.2
Lambwe	79.6	8.3	1.3	90.0	92.1
Base/San Total	85.6	5.0	1.3	92.6	92.6
Base only	85.5	4.4	2.0	92.5	92.6
Base + San	85.2	5.7	1.0	92.1	92.7
Base/San Control	86.1	5.1	0.9	93.2	92.5
Water Total	86.1	6.1	1.0	91.4	93.4
Water	84.9	6.1	0.6	90.8	93.7
Water control	87.4	6.2	1.5	92.0	93.1

Table 40: Community involvement and access to community centers					
	Community involvement and Hygiene Messages			Access to community centers	
	Households aware of a school or community wat/san/hygiene committee	Involved in local water committee*	Households receiving wat/san/hygiene messages from children	Time to local primary school (minutes)	Time to local market center (minutes)
	<i>%</i>	<i>%</i>	<i>%</i>	<i>median</i>	<i>median</i>
TOTAL	14.6	54.8	15.9	20.0	52.5
Kisumu/Nyando	4.0	75.0	18.2	15.0	45.0
Kadibo	10.8	66.7	16.7	10.0	37.5
Miwani	0.0	0.0	23.3	20.0	60.0
Muhoroni	3.3	100.0	12.3	15.0	30.0
Rachuonyo	11.5	64.0	15.7	20.0	40.0
East Karachuonyo	11.1	70.3	19.2	20.0	30.0
Kabondo	14.3	41.7	10.3	20.0	60.0
Suba	24.9	40.4	13.5	20.0	60.0
Central	25.0	40.1	17.3	20.0	60.0
Gwassi	31.1	44.3	11.7	20.0	60.0
Lambwe	15.4	35.0	11.8	20.0	60.0
Base/San Total	0.0	83.3	15.7	20.0	60.0
Base only	0.0	66.7	16.6	20.0	45.0
Base + San	0.0	100.0	14.0	15.0	60.0
Base/San Control	0.0	100.0	16.4	20.0	55.0
Water Total	14.6	51.6	16.3	20.0	45.0
Water	13.9	58.4	15.7	20.0	52.5
Water control	15.2	44.3	16.9	15.0	37.5

* Among those aware of such groups in their community

Table 41: Household asset scores and quintile distribution of the population by geographic and intervention groups						
		Population by wealth quintile				
	Mean asset score	1 (Poorest)	2	3	4	5 (Richest)
	<i>mean</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>
TOTAL	-0.016	20.0	20.0	20.0	20.0	20.0
Kisumu/Nyando	0.068	15.5	18.3	22.1	24.0	20.1
Kadibo	-0.164	14.9	26.2	24.3	24.0	10.5
Miwani	-0.112	19.0	18.1	24.6	25.7	12.7
Muhoroni	0.498	11.8	13.1	17.7	21.9	35.6
Rachuonyo	0.030	17.4	22.1	18.7	18.5	23.3
East Karachuonyo	0.022	17.2	22.2	18.3	18.6	23.8
Kabondo	0.043	17.8	22.0	19.4	18.3	22.5
Suba	-0.164	27.5	19.1	19.5	18.0	15.9
Central	-0.058	25.1	17.8	20.0	16.6	20.6
Gwassi	-0.277	30.9	18.8	19.8	18.3	12.2
Lambwe	-0.120	25.2	21.4	18.5	19.2	15.8
Base/San Total	-0.059	21.5	20.5	21.0	19.1	17.8
Base only	0.041	18.9	20.8	19.9	18.7	21.7
Base + San	-0.090	23.5	19.9	22.1	17.8	16.7
Base/San Control	-0.128	22.2	20.9	21.1	20.7	15.1
Water Total	0.098	17.6	19.2	18.3	21.4	23.5
Water	0.205	17.3	16.1	18.0	21.6	27.0
Water control	-0.009	17.9	22.2	18.6	21.3	20.1