

DATA ANALYSIS FOR:

UGANDAN RURAL HOUSING SURVEYS

30 Household Surveys – September 2015

Document drafted Jan-Feb 2016

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As part of ELITH Project – Energy and Low-Income Tropical Housing



NOTE: To use any of the collated data here, please contact the researchers who were involved in this data collection. Permission is required for any sort of use of this data.

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Demographic Characteristics

No.	Gender	Household members	Household structure	Education	Occupation	Homeownership	H. Structure	Income/ Month (RMB)	Preference to Solar Power
H1	M	1	Solitary	Secondary	Farmer	Owned		60000 UGX	Cost
H2	M	6	Mother & Kids	Secondary	Farmer	Owned		50,000 UGX	Cost
H3	M	6	Parents & Kids	Secondary	Farmer & Trader	Owned		300,000 UGX	Cost
H4	F	6	Couple & Children	Primary	Housewife (family has business)			N/A	Cost
H5	F	4	Mother & Kids	Tertiary	Retired	Owned		300,000 UGX	N/E
H6	F	8	Mother & Kids	Primary	Farmer	Owned		16,000 UGX	Cost
H7	F	8	Mother & Kids & Grandmother	Primary	Farmer	Owned		N/A	Cost
H8	F	4	Mother & Kids	Primary	Farmer & Trader	Owned		N/A	Cost
H9	F	8	Family	No education	Farmer	Renting		50,000 UGX	
H10	F	6	Mother & Kids	Primary	Farmer	Owned		N/A	
H11	F	5	Couple & Children	Secondary	civil Servant	Provided by Government		500,000 UGX	
H12	M	6	Couple & Children	Secondary	civil Servant	Owned		100,000 UGX	
H13	F	5	Couple & Children	Secondary	Trader	Renting		20,000 UGX	
H14	M	5	Couple & Children	Primary	Farmer	Renting		N/A	
H15	F	2	Grandfather + Kids	Primary	Farmer & Trader	Owned		800,000 UGX	
H16		2.5	Couple & Children	Primary	Farmer & Trader	Owned		130,000 UGX	
H17	M	5	Couple & Children	Secondary	Farmer & Trader	Owned		30,000 UGX	
H18	F	5	Couple & Children	Primary	Farmer & Trader	Owned		N/A	

H19	F	4	Couple & Children	Primary	Farmer& Trader	Owned		40,000 UGX	
H20	F	6	Couple & Children	Tertiary	Housewife	Owned		N/A	
H21	F	12	Couple & Children	Primary	Trader	Owned		500,000 UGX	
H22	F	11	Couple & Children	Secondary	Work Beauty Shop	Owned		100,000 UGX	
H23	F	7	Couple & Children	Secondary		Owned		N/A	
H24	F	8	Couple & Children	Tertiary	Housewife	Owned		100,000 UGX	
H25	M	3	Couple & Children	Tertiary		Provided by Government		400,000 UGX	
H26	M	1	Solitary	Tertiary	Student	Renting		N/A	
H27	F	4	Mother, Children and Grandmother		Elderly person	Owned		N/A	
H28	M	4	Couple & Children	Secondary	Civil Servant	Provided by Government		500,000 UGX	
H29	F	6	Couple & Children	No education	Farmer	Owned		N/A	
H30	F	4	Couple & Children	secondary	civil Servant	Provided by Government		500,000 UGX	
H31	F	6	Couple & Children	Secondary	Housewife	Provided by Government		N/A	

Physical Properties

No.	Housing type	Housing Size	Housing number room	Housing Construction year	Housing leaving year	External Facilities	Housing height	Wall materials	Windows material	Floor material	Roof structure material	Housing Orientation			
H1	Veranda	60 square metre	5	2003	2003	Toilet + Kitchen	One-Story	Partly Brick + Hand-made brick	Glass-steel	concrete aggregate stone	Corrugated steel sheets	N-S			
H2	Rectangular	36 square meter	5			Toilet + Kitchen	One-Story	Brick	Glass-steel	Cement	Corrugated steel sheets	N-S			
H3	Rectangular		5	2007	2007	Toilet + Kitchen	One-Story	Brick (partly)	Wooden	Cement	Corrugated steel sheets	S-N			
H4				1985	1986	Toilet + Kitchen	One-Story	Brick	Wooden & Steel	Strip concrete	Steel sheet	N-S			
H5	Rectangular	60 square metre	6	2001	2001	Toilet + Kitchen (Both)	One-Story	Brick & Cement	Glass - Steel	Cement	Steel sheet	N-S	Light + Irony	Grid electricity cost	Willing to Pay
H6	Rectangular	10 square meter	2	1997	1997	Toilet + Kitchen (Both)	One-Story	Brick	Sheet Metal sheet	Earthen	Corrugated steel sheets	N-S	Lighting	Grid electricity cost	She is willing to pay but she is not familiar with the electricity fee
H7	Rectangular & Veranda	60 square metre	4	2005	2005	Toilet + Kitchen (Both)	One-Story	Brick	Glass - Steel	Cement	Corrugated steel sheets	N/A	Lighting + Charge phone	High cost of grid electricity	They are willing to pay for
H8	Rectangular	45 square meter	5	1985	renewed 2015	Toilet + Kitchen (Both)	One-Story	Earthen	Wooden	Earthen	Corrugated steel sheets	S-N	Lighting	High cost of grid electricity	Only willing to pay for lighting
H9	Veranda	44 square meter	4		2009	Toilet + Kitchen (Both)	One-Story	Brick	Glass - Steel	Cement	Corrugated steel sheets	N-S	No planning to stay for long. Fridge and Lighting		
H10	Veranda	50 square meter	5			Toilet + Kitchen (Both)	One-Story	Clay Brick	Glass - Steel	Cement	Corrugated steel sheets	N-S			

H11	Strip House	15 square meter	2			Toilet + Kitchen (Both)	One-Story	Clay Mud	Wooden	Earthen	Tin	N-S			
H12	Rectangular & Veranda	30 square meter	5	2000	2000	Toilet + Kitchen	One-Story	Brick	Wooden & Glass	Cement	Corrugated steel sheets	E-W			
H13	Commercial Residential	50 square meter	4	2005	2005	Toilet+ Kitchen	One-Story	Brick	Glass - Steel	Cement	Corrugated steel sheets	E-W	Business (Owned a store) + Lighting	Grid electricity cost	Willing to Pay
H14	Rectangular	50 square meter	4	1964	1999	Toilet + Kitchen	One-Story	Brick	Glass - Steel	Cement	Corrugated steel sheets	N-S	Lighting	Grid electricity cost	Willing to Pay
H15		35 square meter	5	1960	1964	Toilet + Kitchen	One-Story			Cement	Corrugated steel sheets	N-S	Lighting	They do have a grid, but since they also have another house they just cannot afford to keep both houses with electricity since the fee is very high	Willing to Pay
H16		25 square meter	3	1995	1995	Toilet + Kitchen	One-Story	Brick	Wooden	earthen	Corrugated steel sheets	N-S	Lighting	Grid electricity cost	Willing to Pay
H17	Rectangular	40 square meter	3	2008	2008	Toilet + Kitchen	One-Story	Steel Frame		Earthen	Corrugated steel sheets	S-N	Lighting + Business	Grid electricity cost	Willing to Pay
H18	Rectangular	65 square meter	4	2012	2012	Toilet + Kitchen	One-Story	Brick	Glass - Steel	Cement	Corrugated steel sheets	N-S	Lighting + TV	Grid electricity cost	Willing to Pay
H19		18 square meter	2	1995	1995	Toilet + Kitchen (Partly Attached)	One-Story	Brick	Wooden	Earthen	Corrugated steel sheets	N-S	Prefer Install Solar Power instead of Electricity,		

						Kitchen)							because of the fee		
H20	Rectangular	60 square meter	1			Toilet + Kitchen (Partly Attached Kitchen)	One-Story	Mud-Cement Bricks	Glass - Steel	Strip concrete	Corrugated steel sheets	N-S	Lighting	Grid electricity cost	Willing to Pay, even she is not familiar with the electricity fee
H21	Veranda	60 square meter	10	1992	1992	Toilet + Kitchen	One-Story	Brick	Glass - Steel	Cement	Corrugated steel sheets	N-s	Lighting + Tv	Grid electricity cost	Willing to Pay
H22	Rectangular	30 square meter	6	1991	1991	Toilet + Kitchen	One-Story	Clay-Brick-Cement Mud	Glass - Steel	Cement strip	Corrugated steel sheets	E-W			
H23		25 square meter	4		2001	Toilet + Kitchen	One-Story	Clay-Brick	Wooden	Cement strip	Corrugated steel sheets	N-S			
H24	Veranda	60 25 square meter	4	1990		Toilet + Kitchen	One-Story	Brick	Glass - Steel	Tiles	Corrugated steel sheets	N-S			
H25	Strip	12 square meter	2		2012	Toilet + Kitchen	One-Story	Brick mud	Wooden	Cement	Corrugated steel sheets				
H26	Strip	9 square meter	1		2013	Toilet + Kitchen	One-Story	Brick	Wooden	Cement strip	Corrugated steel sheets	N-S			
H27	Rectangular	50 square meter	4		Just move in	Toilet + Kitchen	One-Story	Block Cement	Glass - Steel	Cement strip	Corrugated steel sheets	N-S			
H28	Rectangular	28 square meter		2005	2015	Toilet + Kitchen	One-Story	Clay Brick	Stone	Cement strip	plywood	N-S			
H29	Rectangular	30 square meter	4	2005	2005	Toilet + Kitchen	One-Story	Brick	Wooden	Cement strip	Corrugated steel sheets	N-S			
H30	Strip	20 square meter	1	Just Moved in		Toilet + Kitchen	One-Story	Brick	Wooden	Cement strip	Corrugated steel sheets	E-W			
H31	Rectangular	25 square meter	4		2011	Toilet + Kitchen	One-Story	Brick	Wooden	Earthen	Corrugated steel sheets	E-W			

Energy Source

Main Use	Firewood						Charcoal						Kerosene						Electricity					Solar Power					Battery		Candles	
	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	1	2	3	4	5	1	2	1	2	
H1		C									I												L	P				L				
H2		C									I												L	P								
H3		C									I																					
H4		C									I												L	P								
H5		C									I																	L				
H6		C										L																				
H7		C										L																L				
H8		C									I		L																			
H9										C	I																	L				
H10		C															L	P	I													
H11		C								C	I											L	P					R				
H12		C									I		L																			
H13		C								C	I		L																			
H14		C		I									L																			
H15		C											L																			
H16		C								C	I		L														L					
H17		C								C	I		L														L	R		L		
H18		C								C	I																L					
H19		C																												L		
H20		C								C			L																			
H21		C								C	I		L															R				
H22		C								C	I		L																			
H23		C														L	P	I														
H24		C								C						L	P	I														
H25										C				C		L	P	I														
H26										C					C		L	P	I													
H27														C		L	P	I														
H28										C						L	P	I														
H29		C														L	P	I														
H30										C						L	P	I														
H31		C								C						L		I														
Total																																

- 1 Lighting
- 2 Cooking
- 3 Charge Mobile
- 4 Iron

Household Appliances

No.		Cooking			Cleansing			Entertainment		Lighting					Cooling		
		AP 1	AP2	Total	AP3	AP4	Total	AP5	AP6	AP7	AP8	AP9	AP10	AP9	AP10	AP11	TOTAL
H1	Solar Power							1		2				2			
H2								1		2				2			
H3								1	1	7	2						
H4										5							
H5	Non-Electrified Households							1		4	1	1					
H6																	
H7									1		1		2				
H8									1		1		2				
H9																	
H10								1		3	1						
H11									1	1							
H12																	
H13									1						1		
H14									1						2		
H15									1				1				
H16									1		1						
H17											4				1		
H18									1	3							
H19									1								
H20									1						1		
H21									1				1	2			
H22									1			3	1				
H23	Electrified Households						1		4			1					
H24							2	2	12								
H25							1	1	2								
H26							1	1	1						1		
H27							1	1	4								
H28							2	1	5								
H29							1	1	4								
H30							1	1	1								
H31							1		1								

AP1	Rice Cooker	AP10	Washing Machine	AP14	TV LCD
	Drinking Water		Electric Water		Laptop
AP2	Machine	AP11	Heater	AP15	PC
AP3	Induction Cooker	AP12	Vacuum Cleaner	AP16	Table PC
AP4	Microwave	AP13	Dishwasher	AP17	Others
AP5	Cathode ray-tube Television				
AP6	Radio				
AP7	Basic light bulb				
AP8	Battery light lamp				
AP9	Solar lamp				
AP10	Kerosene Lamp				
AP					
11	Electric Fan				

Energy Consumption

	Electricity			Water			Firewood			Charcoal			Kerosene			Solar Power		Battery Lamp		Battery Radio		Candles			
	Accessibilit y	Usag e	Cost	Acces sibilit y	Usag e	Cost	Acces sibilit y	Usage	Cost	Acces sibilit y	Usage	Cost	Access ibility	Usage	Cost	Cost		Usage	Cost	Usage	Cost	Acces sibilit y	Usage	Cost	
H 1				Water well	6 gallon/Da y	Free	Colle cting by them selves	2 Bundl e/month	Free	N/A	N/A	N/A	Marke t	5 Litres/ 5 month	2,800 UGX/Mo nth	600, 000					1 pair Batterie s/2 Week	3,000 UGX/ Mont h			
H 2				Water well	5 gallon/Da y	Free	Colle cting by them selves	7 Bundl e/Wee k	Free	From firew ood	Half Bag/Mon th	17,500 UGX/ Month				800, 000 UGX									
H 3				Water well	8 gallon/Da y	Free	Mark et	7 Bundl e/Wee k	21,000 UGX/ Week	Mark et	1 sack/3 month	11,600 UGX/ Month				400, 000 UGX	210 ,00 0 UG X								
H 4				Rain water	5 gallon/Da y	Free	Colle cting by them selves	2 Bundl e/Wee k	30,000 UGX (Trans portati on fee)	Mark et	1 Tin/2We ek	2,000 UGX/ Month				300, 000 UGX	1 ligh t bulb (10 ,00 0 UG X)								
H 1 1				From the Priso n nearb y	6 gallon/Da y	Free	Colle cting by them selves	2 Bundl e/ month	6,000 UGX/ Month	Mark et	1 Bag/Mon th	35,000 UGX/ Month				8,00 0 UGX	160 ,00 0 UG X				1 pair Batterie s/2 Week	3,000 UGX/ Mont h			
H 5				Unive rsity Plan suppl y	10 gallon/Da y	60,00 0 UGX/ Month	Mark et	2 Big Bundl e/Wee k	8,000 UGX/ Week	Mark et	1 Tin/Week (as suppl ementary)	4,000 UGX/ Month						3 pair of Batterie s/ Month	7,000 UGX/ Month	1 pair Batterie s/1 Week	6,000 UGX/ Mont h				

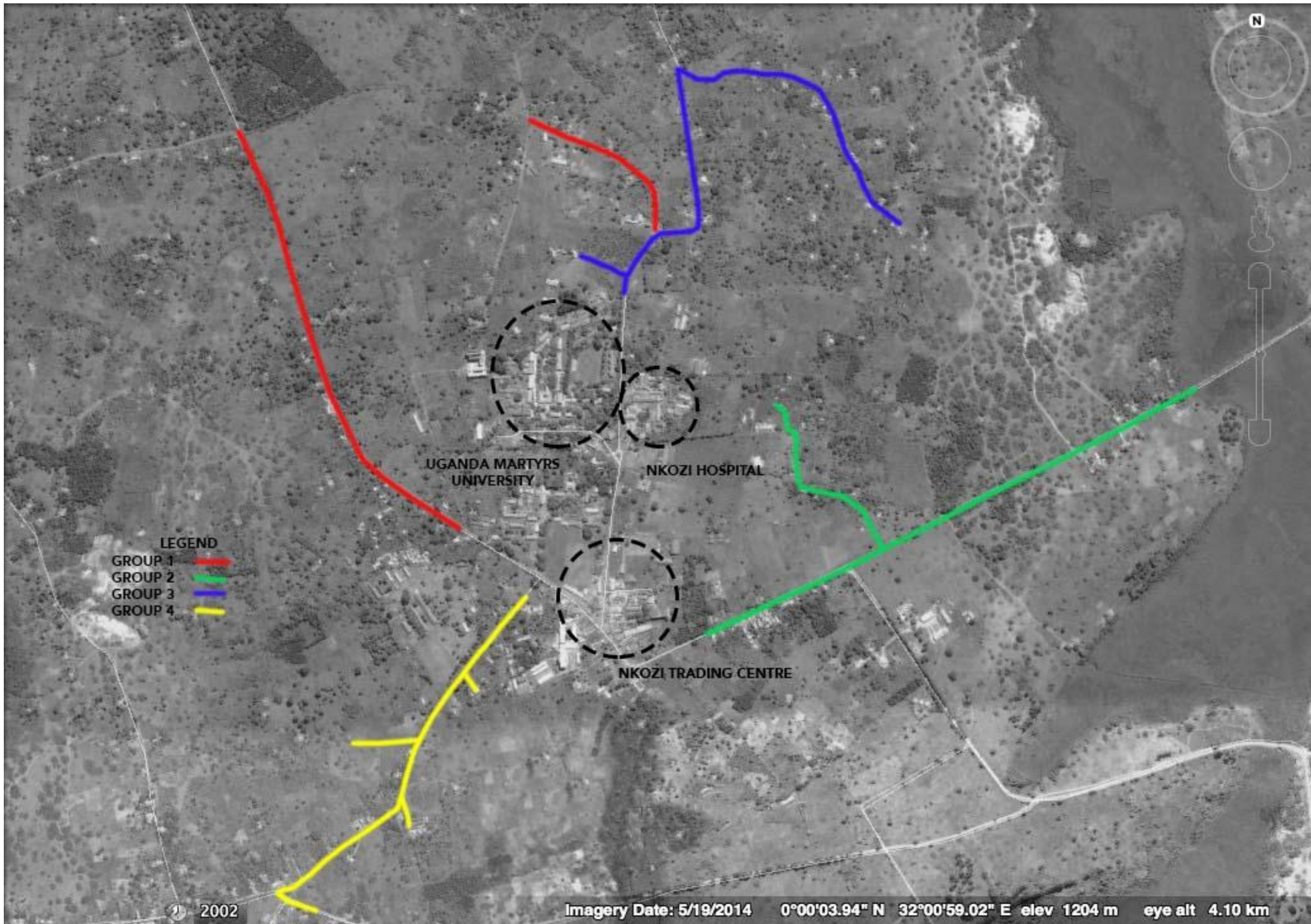
H 6				Sprink water far 1.5 Km	4 gallon/Day	24,000 UGX/Month	Collecting by themselves	4 Bundle/1 month	Free	N/A	N/A	N/A	Market	500 ml/4 Day	9,800 UGX/Month								
H 7				Sprink water far 1.5 Km	12 gallon/Week	Free	Collecting by themselves	2 Bundle/Week	Free	N/A	N/A	N/A	Market	1 litre/2 week	5,600 UGX/Month	Charge each 3 Weeks	Free	2 Batteries/Week	6,000 UGX/Month				
H 8				Neighbour Provision	3 gallon/Day	18,000 UGX/Month	Collecting by themselves	2 Bundle/2 month	Free	Market	Small tank/2 Weeks	6,000 UGX/Month	Market	5 litre/3 month	4,000 UGX/Month	2 battery/1.5 month		2 Batteries/1.5 Month	1,300 UGX/Month				
H 9				Sprink water far 1.5 Km	3 gallon/Day	Free		1 Bundle/month		Market	1 sack/ 2 month	17,500 UGX/Month				3 batteries /2 week	4,000 UGX/Month	2,000 UGX					
H 1 2				Sprink water far 1.5 Km	4 gallon/Day	24,000 UGX/Month	Collecting by themselves	7 Bundle/Week	Free	From firewood	1 sack/ 2 month	Free	Market	14 litre/ Month	39,200 UGX/Month			2 Pair of Batteries/ Month	3,000 UGX/Month				
H 1 3				Sprink water far 1.5 Km	5 gallon/Day	30,000 UGX/Month	Collecting by themselves	3 Bundle/Month	Free	Market	1 Tin Day	20,000 UGX/Month	Market	500ml /1 Week	5,600UG X/Month			2 Pair of Batteries/ Month	3,000 UGX/Month	Market	3 candles/Day	22,500 UGX/Month	
H 1 4				Water well	3 gallon/Day	Free	Collecting by themselves	5-6 small Bundle	Free	From firewood	1 Tin/Week	4,000 UGX/Month	Market	0.5 litre/ Week	5,600UG X/Month			2 Pair of Batteries/ Month	3,000 UGX/Month				
H 1 5				From the nearest famil	3 gallon/Day	Free	Collecting by themselves	1 Bundle/month	Free	N/A	N/A	N/A	Market	1 Litre/ Month	2,800 UGX/Month			3 Pair of Batteries/ Month	4,500 UGX/Month				

H 2 3	Market	25,000 UGX/Month	University Supply	2 gallon/Day	12,000 UGX/Month				Market	1 Bag/Month	35,000 UGX/Month											
H 2 4	Market	20,000 UGX	From Other house relatives	5 gallon/Day	Free	Market	2 Bundle/Week	10,000 UGX	Market	1 Bag/2 Month	17,500 UGX/Month											
H 2 5	Market	5,000 UGX	Market	4 gallon/Day	24,000 UGX/Month	N/A	N/A	N/A	Market	1 Bag/4 Month	8,750 UGX/Month	Market	1 litre/2 week	5,600 UGX/Month						Market	Supplementary 10 Candles (Month)	3,000 UGX/Month
H 2 6	Market	15,000 UGX/Month	Centre Supply	1 gallon/Day	6,000 UGX/Month	N/A	N/A	N/A	Market	Half sack/Month	17,500 UGX/Month	Market	2 litre/month	5,600 UGX/Month						Market	Supplementary 13 Candles (Month)	3,900 UGX/Month
H 2 7	Market	30,000 UGX	Centre Supply	3.5 gallon/Day	20,000 UGX	N/A	N/A	N/A	N/A	N/A	N/A	Market	2 litre/Week	22,000 UGX/Week								
H 2 8	Market	170,000 UGX/Month	Market	15 gallon/Week	12,000 UGX/Month	N/A	N/A	N/A	Market	1 Bag/Month	35,000 UGX/Month											
H 2 9	Market	28,000 UGX	University Supply	4 gallon/Day	24,000 UGX/Month	Market	2.5 Bundle/Week	7,500 UGX/Week	N/A	N/A	N/A											
H 3 0			Prison Supply	N/A	Free	N/A	N/A	N/A	Market	1 Bag/Month	35,000 UGX/Month											
H 3 1		Free	Prison Supply	4 gallon/Day	Free	Collecting by themselves	2 Bundle/Week	Free	Market	1 sack/Month	35,000 UGX/Month									Market	Supplementary 8 Candles (Month)	2,400 UGX/Month

Transport

		Distance			Purpose				Mode of Transportation				Frequency of the trips	Fee
					Shopping	Visit Relatives	Work	Other	Car	Moto bike	Mini Bus-Taxi	Bike/Walk		
H1	A	Nearby town (1 kilometer)			X	X				X	X		1/month	50,000 UGX
	A	Kampala				X				X	X		Twice/month	15,000 UGX
H2	A	1 kilometers (Other Village)				X				X	X		1/3 month	4,000 UGX
	A	Kampala				X				X	X		1/5 month	20,000 UGX
H3	A	Kampala						Hospital		X	X		1/2 month	20,000 UGX
	A	Nearby town (100 kilometers)				X				X	X		1/Year	30,000 UGX
H4	A	Kampala						Hospital		X	X		1/Month	20,000 UGX
H5														
H6	A	Nearby town (200 kilometers)				X				X	X		1/3 Years	50,000 UGX
H7														
H8														
H9	A	Nearby town (300 kilometer)				X				X	X		1/3month	46,000 UGX
H10														
H11	A	Kampala				X				X	X		2or 3/Week	10,000 UGX
H12	A	Within Area					X	Church				X		
H13	A	Within Area					X					X		
H14														
H15	A	Kampala (100 KM)					X (business)			X	X		Weekly	20,000 UGX
H16	A	Within Area			X	X						X		
H17	A	80 KM					X (business)			X			Daily	2 litres/Day =7,000 UGX
H18	A	80 KM					X (business)			X	X		1/Year	20,000 UGX
H19	A	Kampala (100 KM)				X				X	X		1/Year	50,000 UGX
H20	A	Within Area			X	X	X (business)			X	X		1/Month	20,000 UGX

H21													
H22													
H23	A	Kampala				X				X	X		1/Month 20,000 UGX
H24	A	Kampala				X				X	X		1/Month 20,000 UGX
	B	300 KM from Area				X				X	X		1/Month 50,000 UGX
H25	A	Kampala				X	X			X	X		3 times/Month 40,000 UGX
H26	A	Kampala				X	X			X	X		2/Week 20,000/week
H27													
H28	A	Within Area					X			X	X		Weekly 5,000 UGX
H29													
H30													
H31													



01. UG Rural Housing Survey_AC-from SEP 2015 SURVEYS – JAN-FEB 2016_UNNC - Ali Cheshmehzangi

Route Taken & Houses Documented

