Palau 2018 Urban Household Electrical Appliances, Lights, and End-use Survey
–
Tabulated Results

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1. Background

In 2018 a household electrical appliances and lights survey were undertaken in the urban areas of Palau, i.e. Koror and Airai. The survey covered 40 urban households that have received an energy efficiency loan from the National Development Bank of Palau (NDBP) and a control group of 442 urban households that have not received an energy efficiency loan from the NDBP. The control group constitutes around 11.4% of all urban households in the country (as per 2015 census results there is a total of 3884 urban households in Palau).

The survey was supported financially and technically by IUCN Oceania and the UNDP Pacific Office in Fiji. Data entry was done by the Palau Energy Administration (PEA), Government of Palau and data validation and tabulation was undertaken by the UNDP Pacific Office in Fiji.

2. Survey Results

Below are the tabulated data from the response to the questions included in the survey. Comments are provided on important methodological aspects for some questions.

Gender & Age of People Interviewed

Table 1: Gender of People Interviewed

Gender	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Female	20	50	222	50.5
Male	20	50	218	49.5
Total	**40**	**100**	**440**	**100**

Table 2: Age of People Interviewed

Age of People Interviewed (years)	NDBP Households	Control Group
Minimum	24	19
Maximum	78	89
Average[1]	50	49
Median[2]	50	36

Time used on Interviewing

Table 3: Age of People Interviewed

Age of People Interviewed (years)	NDBP Households	Control Group
Minimum	10	7
Maximum	110	180
Average	47	38
Median	41	34

[1] Average is calculated by dividing the sum of the values in the set by their number.

[2] Median is the value in an ordered set of values below and above which there is an equal number of values.

Power Meter

Table 4: If Households share the same Power Meter

More than one Household shares the same Power Meter?	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
No	N/a[3]	N/a	15	3.4
Yes	N/a	N/a	423	96.6
Total	N/a	N/a	**438**	**100**

Table 5: Number of Households sharing the same Power Meter

Number of Households sharing the same Power Meter	Control Group	
	Number	Percentage
2 Households	7	63.6
3 Households	1	9.1
4 Households	3	27.3
Total	**11**	**100**

Number of Buildings in the Household that have Electricity

Table 6: Number of Buildings in the Household that have Electricity

Number of Buildings with Electricity	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
1	39	97.5	426	97.3
2	1	2.5	8	1.8
3	0	0	0	0
4	0	0	2	0.5
5	0	0	1	0.2
6	0	0	1	0.2
Total	**40**	**100**	**438**	**100**

	NDBP Households	Control Group
Minimum	1	1
Maximum	2	6
Average	1	1.1
Median	1	1

[3] There were 39 entries of '#' (which means either 'not know', 'respondent not answer' or 'question not apply') and one '2' which is an invalid entry (should be either 'Y' (yes) or 'N' (no). Thus, tabulation is not possible.

Main Building Construction

Table 7: Construction Materials of Walls in Main Building

Construction Materials of Walls in Main Building	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Coconut	0	0	0	0
Other Wood	9	22.5	136	31.1
Brick	12	30	46	10.5
Concrete Block	17	42.5	202	46.1
Metal	2	5	44	10
Asbestos	0	0	0	0
Other	0	0	10	2.3
Total	**40**	**100**	**438**	**100**

Table 8: Materials of Roofs in Main Building

Materials of Roofs in Main Building	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Coconut	0	0	0	0
Other Wood	0	0	1	0.2
Brick	0	0	6	1.4
Concrete Block	1	2.5	37	8.6
Metal	38	95	382	88
Asbestos	1	2.5	3	0.7
Other	0	0	3	0.7
Total	**40**	**100**	**432**	**100**

Main Building Colours

Table 9: Colour of the Outside Walls in Main Building

Colour of the Outside Walls in Main Building	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Unpainted	1	2.5	25	5.7
White	4	10.0	91	20.8
Light colour	33	82.5	268	61.3
Medium colour	1	2.5	35	8
Dark colour	1	2.5	18	4.1
Total	**40**	**100**	**437**	**100**

Table 10: Colour of the Roof in Main Building

Colour of the Roof in Main Building	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Unpainted	10	25	194	44.3
White	15	37.5	69	15.8
Light colour	9	22.5	91	20.8
Medium colour	4	10	51	11.6
Dark colour	2	5	33	7.5
Total	**40**	**100**	**438**	**100**

Type of Residence

Table 11: Type of Residence

Type of Residence	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Single story house	37	92.5	392	89.1
Double story house	3	7.5	36	8.2
Apartment in an apartment building	0	0	10	2.3
Three story house	0	0	2	0.5
Residence over shop	0	0	0	0
Other	0	0	0	0
Total	**40**	**100**	**440**	**100**

Household Age Group Composition

Table 12: Total Number of People Surveyed in Various Age Groups

Total Number of People Surveyed in Various Age Groups	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Under 5 years	18	9.2	181	9.3
5-10 years	23	11.8	166	8.6
11-17 years	28	14.4	202	10.4
18-35 years	37	19.0	467	24.1
36-50 years	42	21.5	482	24.9
51-65 years	30	15.4	313	16.2
Older than 65 years	17	8.7	127	6.6
Total	**195**	**100**	**1938**	**100**

Number of people in surveyed households	NDBP Households	Control Group
Average	5	4.4
Median	5	4
Maximum	10	25
Minimum	1	1

Average Amount the Household estimates it pays per Month for Electricity

Table 13: Amount the Household estimates it pays per Month for Electricity

Amount the Household estimates it pays per Month for Electricity (US$)	NDBP Households	Control Group
Average	135	97.3
Median	100	80
Maximum	500	1500
Minimum	20	8

Method of Payment of Electricity Bill

Table 14: Method of Payment of Electricity Bill

Method of Payment	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Cash payment of bill	14	35	216	49
Electronic payment	2	5	12	3
Pre-paid meter	23	57.5	211	47.8
Other	1	2.5	2	0.5
Total	**40**	**100**	**441**	**100**

Roof Insulation

Table 15: Roof Insulation

Roof Insulation	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Radiant barrier right under the roofing materials (typically aluminium)	19	47.5	140	32
Batts (fiberglass or cotton)	0	0	28	6.4
Blown (fiberglass or cellulose)	0	0	5	1.1
Spray foam	1	2.5	7	1.6
Other	9	22.5	76	17.4
None	11	27.5	181	41.4
Total	**40**	**100**	**437**	**100**

It should be note that due to an oversight both 'Other' and 'None' were given the code '5' in the questionnaire. While during training the surveyors were informed to give '5' for 'Other' and '6' for 'None' it is possible this were not done in some cases.

Motor Vehicles

Table 16: Any Residents of the Household own and have registered a Motor Vehicle

Residents of the Household own and have registered a Motor Vehicle	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	39	97.5	391	91.8
No	1	2.5	35	8.2
Total	**40**	**100**	**426**	**100**

Table 17: Automobiles

Number of Automobiles	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Don't own a car	5	12.5	67	15.2
1 car	13	32.5	204	46.3
2 cars	15	37.5	110	24.9
3 cars	7	17.5	39	8.8
4 cars	0	0	14	3.2
5 cars	0	0	5	1.1
36 cars	0	0	2	0.5
Total	**40**	**100**	**67**	**15.2**

Table 18: Motorcycles

Number of Motorcycles	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Don't own a motorcycle	38	97.4	437	98.6
1 motorcycle	1	2.6	4	0.9
2 motorcycles	0	0	1	0.2
3 motorcycles	0	0	1	0.2
Total	**39**	**100**	**443**	**100**

Table 19: Trucks

Number of Trucks	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Don't own a truck	29	72.5	385	86.9
1 truck	8	20	53	12
2 trucks	1	2.5	3	0.7
3 trucks	2	5	2	0.5
Total	**40**	**100**	**443**	**100**

Table 20: Vans

Number of Vans	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Don't own a van	32	80	382	86
1 van	7	17.5	57	12.9
2 vans	1	2.5	3	0.7
3 vans	0	0	0	0
4 vans	0	0	1	0.2
Total	**40**	**100**	**443**	**100**

Table 1: Buses

Number of Buses	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Don't own a bus	40	100	442	100
Total	**40**	**100**	**442**	**100**

Table 22: Bicycles

Number of Bicycles	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Don't own a bicycle	38	95	435	98.2
1 bicycle	1	3	7	1.6
2 bicycles	1	3	1	0.2
Total	**40**	**100**	**443**	**100**

Table 23: Other Vehicles

Number of other Vehicles	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
No other vehicles	40	100	442	99.8
1 other vehicle	0	0	1	0.2
Total	**40**	**100**	**443**	**100**

Sources of Household Income

Table 24: Sources of Household Income for NDBP Households

	Salaried Government	Salaried Private	Farming	Skilled Work	Own Business at Home	Own Business Outside	Fishing	Pension	Remittances	Other
Main income source	29	4	0	0	1	0	0	6	0	0
Second most important source	3	5	0	0	0	0	0	3	1	0
Third most important source	1	2	0	0	0	0	0	2	0	0
Fourth most important source	0	0	0	0	0	0	0	1	0	0

Table 25: Sources of Household Income for Control Group

	Salaried Government	Salaried Private	Farming	Skilled Work	Own Business at Home	Own Business Outside	Fishing	Pension	Remittances	Other
Main income source	245	107	3	3	0	5	0	75	2	0
Second most important source	38	74	3	2	2	4	3	55	0	0
Third most important source	11	17	0	0	2	0	1	18	0	0
Fourth most important source	4	5	0	1	0	0	0	5	0	0

Sanitation

Table 26: Sanitary Facilities

Type of Sanitary Facilities	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Flush toilet	37	92.5	415	94.5
Water sealed squat toilet	2	5	0	0
Outside pit latrine	0	0	24	5.5
Compost toilet	1	2.5	0	0
Other	0	0	0	0
None	0	0	0	0
Total	**40**	**100**	**439**	**100**

Does the person being interviewed do the family washing with a washing Machine

Table 27: Does the person being interviewed do the family washing with a washing Machine

Does the person being interviewed do the family washing with a washing Machine?	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	21	53	247	56
No	19	48	194	44
Total	**40**	**100**	**441**	**100**

Table 28: Estimated number of washing machine loads the person being interviewed does per week in NDBP Households

	Number	Percentage
1-5	10	50
6-10	8	40
11-15	1	5
16-21	1	5
Total	**20**	**100**

Average	6 loads per week
Median	6 loads per week
Minimum	1 load per week
Maximum	21 loads per week

Table 29: Estimated number of washing machine loads the person being interviewed does per week in Control Group

	Number	Percentage
1-5	156	65
6-10	72	30
11-15	8	3
16-21	4	2
Total	**240**	**100**

Average	5 loads per week
Median	4 loads per week
Minimum	1 load per week
Maximum	20 loads per week

Lighting

With regard to lighting, it should be noted that what was recorded was Watts per light bulb/tube, *not* Watts per fixture. An example: a fixture has four (4) fluorescent tubes of the old style with iron ballast. The number of lines needed to be filled in the questionnaire for a fixture will be equal to the number of tubes in the fixture - in this case, four (4). The data recorded in the four lines for this fixture - i.e. location, Watts & hours of use - are the same since all the tubes in a fixture go on and off at the same time. Concerning the acronyms 'T12', 'T8' and 'T5' for fluorescent tubes, then 'T' indicates that the shape of the bulb is tubular and the number after is the diameter in eighths of an inch (T12= 38 mm in diameter, T8 = 25 mm in diameter and T5 =15.875 mm in diameter).

Table 30: Number of Light Bulbs/Tubes in Surveyed Households

Number of Light Bulbs/Tubes in Surveyed Households	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
1	0	0	1	0.2
2	0	0	4	0.9
3	0	0	9	2
4	0	0	28	6.3
5	0		43	9.7
6	2	5.1	44	9.9
7	1	2.6	50	11.3
8	4	10.3	42	9.5
9	3	7.7	40	9
10	3	7.7	46	10.4
11	2	5.1	27	6.1
12	5	12.8	31	7
13	4	10.3	13	2.9
14	5	12.8	23	5.2
15	0	0	14	3.2
16	0	0	3	0.7
17	0	0	7	1.6
18	2	5.1	3	0.7
19	0	0	2	0.5
20	2	5.1	3	0.7
21	1	2.6	3	0.7
22	2	5.1	0	0
23	0	0	2	0.5
24	0	0	0	0
25	0	0	2	0.5
26	1	2.6	1	0.2
27	0	0	2	0.5
28	1	2.6	0	0
52	1	2.6	0	0
Total	**39**	**100**	**443**	**100**

Number of Light Bulbs/Tubes in Surveyed Households	NDBP Households	Control Group
Average	14	9.2
Median	12	9
Maximum	52	27
Minimum	6	1

Table 31: Number of Each Type of Light in all Surveyed Households

Type of Light Bulbs/Tubes	*NDBP Households*		*Control Group*	
	Number	**Percentage**	**Number**	**Percentage**
Big old-style fluorescent (T12) tube with iron ballast	4	0.7	28	0.6
Standard old-style fluorescent (T8) tube with iron ballast	2	0.3	9	0.2
Standard fluorescent (T8) tube with electronic ballast	3	0.5	0	0
Small tube fluorescent (T5) tube with electronic ballast	0	0	6	0.1
LED T8 linear tube	0	0	13	0.3
LED T5 linear tube	0	0	74	1.7
CFL bulb with integrated electronic ballast	338	58.3	2938	67.8
CFL plug-in bulb with separate electronic ballast	58	10	368	8
LED bulb	65	11.2	599	13.8
Incandescent with screw base	23	4.0	240	5.5
Incandescent with pin type (bayonet)	0	0	12	0.3
Halogen bulb	0	0	27	0.6
Other	87	15	21	0.5
Total	**580**	**100**	**4335**	**100**

Table 32: Hours of use per Day

Hours of use per Day	NDBP Households		Control Group	
	Number	**Percentage**	**Number**	**Percentage**
0	53	9.5	206	5.1
1-6	344	61.5	2405	59.5
7-12	161	28.8	1381	34.2
13-18	1	0.2	35	0.9
19-24	0	0	14	0.3
Total	**559**	**100**	**4041**	**100**

Hours of use per Day	NDBP Households	Control Group
Average	4.2	5.3
Median	4.0	4
Maximum	13	24
Minimum	0	0

Table 33: Location of Light Bulbs/Tubes

Location of Light Bulbs/Tubes	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Sleeping room	134	24.1	1123	31.2
Eating room (if there is a separate room for eating)	33	5.9	221	6.1
Main living room	95	17.1	563	15.7
Cooking areas (kitchen)	30	5.4	394	11.0
Room used for other business purposes	6	1.1	27	0.8
Office for personal use	1	0.2	2	0.1
Bathroom/toilet	61	11	2	0
Hallway	31	5.6	117	3.3
Storage room or closet	14	2.5	46	1.3
Garage	39	7	154	4
Veranda	63	11.3	643	17.9
Other places outside (yard lights, security lights, etc.)	37	6.7	295	8.2
Other	12	2.2	10	0.3
Total	**556**	**100**	**3597**	**100**

It should be note that due to an oversight it appears that 'Shop' was not included in the questionnaire (this is why the 'Room used for other business purposes' features).

Table 34: Watts per Light Bulb/Tube

Watts per Light Bulb/Tube	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
1-10	151	27.2	673	16.80
11-20	225	40.5	1622	40.50
21-30	105	18.9	1117	27.89
31-40	24	4.3	211	5.27
41-50	5	0.9	29	0.72
51-60	40	7.2	191	4.77
61-70	0	0	30	0.75
71-80	3	0.5	118	2.95
81-90	0	0	0	0
91-100	3	0.5	14	0.35
Total	**556**	**100**	**4005**	**100**

Watts per Light Bulb/Tube	NDBP Households	Control Group
Average	19.6	22.5
Median	19	19
Maximum	100	100
Minimum	2	1

Table 35: Daily Estimated Energy Use for Lighting in all Surveyed Households

Daily Estimated Energy Use for Lighting in all Surveyed Households	NDBP Households		Control Group	
	Wh/day	Percentage	Wh/day	Percentage
Big old-style fluorescent (T12) tube with iron ballast	1240	2.7	3296	0.7
Standard old-style fluorescent (T8) tube with iron ballast	768	1.7	1162	0.2
Standard fluorescent (T8) tube with electronic ballast	1656	3.6	4564	1.0
Small tube fluorescent (T5) tube with electronic ballast	0	0	1248	0.3
LED T8 linear tube	0	0	3522	0.8
LED T5 linear tube	0	0	4841	1.03
CFL bulb with integrated electronic ballast	30368.2	65.5	341046	72.9
CFL plug-in bulb with separate electronic ballast	5998	12.9	7637	1.6
LED bulb	3272	7.1	41161	8.8
Incandescent with screw base	2590	5.6	51160	10.9
Incandescent with pin type (bayonet)	0	0	1226	0.3
Halogen bulb	0	0	6795	1.5
Other	466.8	1	228	0.05
Total	**46359**	**100**	**467885**	**100**

The estimated total daily energy used for lighting in all surveyed NDBP households are 46 kWh/day. Estimated average daily energy used for lighting per surveyed NDBP household is 1.2 kWh/day. The estimated total daily energy used for lighting in all surveyed households in the control group are 468 kWh/day. Estimated average daily energy used for lighting per surveyed household in the control group is 1.06 kWh/day.

Refrigerators

Table 36: Number of Refrigerators in Surveyed Households

Number in Surveyed Households	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
No refrigerator	1	2.6	68	15.4
1 refrigerator	35	89.7	358	81
2 refrigerators	2	5.1	16	3.6
3 refrigerators	1	2.6	0	0
Total	**39**	**100**	**442**	**100**

Refrigerators in Surveyed Households	NDBP Households	Control Group
Total	42	390
Average	1.1	0.9
Median	1	1
Maximum	3	2
Minimum	0	0

Table 37: Location of Refrigerators

	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Sleeping room	0	0	4	1
Eating room	8	19	101	26.1
Main living room	5	11.9	49	12.7
Cooking area (Kitchen)	27	64.3	221	57.1
Shop	0	0	0	0
Room used for other business purposes	0	0	0	0
Office for personal use	0	0	0	0
Hallway	0	0	0	0
Storage room or closet	1	2.4	0	0
Garage	1	2.4	2	0.5
Veranda	0	0	6	1.6
Other places outside	0	0	2	0.5
Other	0	0	2	0.5
Total	**42**	**100**	**387**	**100**

Table 38: Approximate Year Refrigerators Obtained in NDBP Households

Period	Number	Percentage
1986-2000	4	10
2001-2005	7	17
2006-2010	3	7
2011-2012	1	2
2013-2014	5	12
2015-2016	13	31
2017-2018	9	21
Total	**42**	**100**

Oldest from	1986
Newest from	2018
Average age	6.9 years old
Median age	3 years old

Table 39: Approximate Year Refrigerators Obtained in Control Group

Period	Number	Percentage
1995-2000	25	6.6
2001-2005	29	7.7
2006-2010	76	20.1
2011-2012	38	10.1
2013-2014	65	17.2
2015-2016	81	21.4
2017-2018	64	16.9
Total	**378**	**100**

Oldest from	1995
Newest from	2018
Average age	6.3 years old
Median age	5 years old

Table 40: Refrigerator obtained new or used

Obtained New or Used	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
New	42	100	363	94.5
Used	0	0	21	5.5
Total	**42**	**100**	**384**	**100**

Table 41: Refrigerator obtained locally or overseas

Obtained Locally or Overseas	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Locally	41	98	380	98.2
Overseas	1	2	7	1.8
Total	**42**	**100**	**387**	**100**

Table 42: Refrigerator Self-defrosting

Self-defrosting	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	34	81	268	69.3
No	8	19	119	30.7
Total	**42**	**100**	**387**	**100**

Table 43: Refrigerator Door Arrangement

Door Arrangement	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Single door	3	7	22	5.7
Freezer above, refrigerator below	36	86	352	91.9
Freezer door beside the refrigerator door	1	2	4	1
Freezer door under the refrigerator door	2	5	4	1
Freezer in a drawer under the refrigerator door	0	0	1	0.3
Total	**42**	**100**	**383**	**100**

Table 44: Indicative Refrigerator Capacity

Indicative Volume in Litres	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
<200	1	2.4	5	1.3
201-300	1	2.4	9	2.3
301-400	1	2.4	6	1.6
401-500	2	4.8	22	5.7
501-600	5	11.9	27	7.0
601-700	18	42.9	152	39.7
701-800	10	23.8	75	19.6
801-900	0	0	39	10.2
901-1000	4	9.5	10	2.6
1001-1100	0	0	37	9.7
1101-1200	0	0	1	0.3
Total	**42**	**100**	**383**	**100**

Indicative Volume in Litres	NDBP Households	Control Group
Average	657	702
Median	650	697
Maximum	1003	1198
Minimum	180	132

With regard to the above estimates of refrigerator volume, it should be noted that *only* width and height were measured. However, the depth of major appliances is consistent with the depth of built-in cabinets for kitchens since they are designed to fit into a kitchen using standard cabinet components – thus to calculate volume it is reasonable to use 600-620 mm as a depth.[4] For this particular survey a 600 mm depth was assumed. In addition, it should be noted that the exterior was measured. A significant part of the interior consists of various compartments, shelves, trays, drawers, etc. that take up space - thus the actual refrigerator capacity would be smaller than indicated.

Table 45: Quality of Refrigerator Door Seal

Quality of Door Seal	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Good	41	97.6	372	97.1
Bad	1	2.4	11	2.9
Total	**42**	**100**	**383**	**100**

[4] Personal communication with Dr. Herbert A. Wade.

The method used to assess the quality of door seal was a visual check. The surveyors were to look at the edge of the door and see if there were are any gaps between the seal and the surface of the refrigerator chamber. In addition, the door was to be opened and checked if the seal appeared clean and there was no black mould or obvious areas where the seal was damaged and would allow warm air to enter the cold space. Furthermore, the surveyors were to look just inside the area where the door seal fits against the refrigerator/freezer body and see if there is any condensation (drops of water) in areas that indicate that warm air carrying moisture is entering the cold space near those areas.[5]

Table 46: If Refrigerator is powered on and operating all the time

Powered on and operating all the time	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	42	100	385	99.2
No	0	0	3	0.8
Total	**42**	**100**	**388**	**100**

Table 47: Average amount the household estimates it pays per month for electricity to run the refrigerator(s)

Average amount (in US$)	NDBP Households	Control Group
Average	15	18
Median	15	15
Maximum	75	120
Minimum	0.5	3

[5] Another method involves using a piece of thin cardboard. Specifically, open the door and close the door so the piece of cardboard is between the seal and the refrigerator body. Slide the card up and down the seal area. If it is very easy to slide at some places and noticeably more difficult at others, then the seal is bad. If the seal is okay, the card will stay by itself in any spot on the seal when the door is closed and sliding it will feel about the same, with a little friction, all around the seal.

Table 48: Name of Refrigerator Manufacturer in NDBP Households

Manufacturer	Number	Percentage
Maytag	5	11.4
Toshiba	4	9.1
Amana	4	9.1
GE	4	9.1
Samsung	3	6.8
LG	3	6.8
Whirlpool	3	6.8
Frigidaire	3	6.8
Electrolux	3	6.8
Toshiba	3	6.8
Avanti	3	6.8
Kenmore	3	6.8
Haier	3	6.8
Total	**44**	**100**

Table 49: Name of Refrigerator Manufacturers in Control Group

Manufacturer	Number	Percentage
Maytag	15	5.8
Toshiba	17	6.5
Amana	55	21.2
GE	61	23.5
Danby	1	0.4
LG	5	1.9
Whirlpool	2	0.8
Frigidaire	15	5.8
Hotpoint	13	5
Toshiba	17	6.5
Avanti	14	5.4
Kenmore	6	2.3
Haier	5	1.9
GMG	3	1.2
Westpoint	1	0.4
TG	2	0.8
Samsung	6	2.3
Kelvinator	1	0.4
Sanyo	4	1.5
Magic Chef	3	1.2
Cooltech	1	0.4
Tatung	4	1.5
Hitachi	2	0.8
Kirkland	1	0.4
Westinghouse	2	0.8
National	1	0.4
Meiling	1	0.4
Admiral	1	0.4
Hamilton Beach	1	0.4
Total	**260**	**100**

Table 50: Energy Label on Refrigerator

Energy Label	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	1	2.4	7	1.8
No	40	97.6	373	98.2
Total	**41**	**100**	**380**	**100**

Table 51: Plans to Replace Refrigerator(s)

Plans to Replace	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	0	0	15	3.9
No	42	100	373	96.1
Total	**42**	**100**	**388**	**100**

Freezers

Table 52: Number of Freezers in Surveyed Households

Number of Freezers in Surveyed Households	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
No freezer	11	28.2	186	42.2
1 freezer	25	64.1	234	53.1
2 freezers	2	5.1	21	4.8
3 freezers	1	2.6	1	0.2
Total	**39**	**100**	**441**	**100**

Number of Freezers in Surveyed households	NDBP Households	Control Group
Total	32	279
Average	0.8	0.6
Median	1	1
Maximum	3	3
Minimum	0	0

Table 53: Location of Freezers

Location	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Sleeping room	0	0	0	0
Eating room	3	9.4	59	21.4
Main living room	3	9.4	28	10.1
Cooking area (Kitchen)	11	34.4	133	48.2
Shop	1	3.1	0	0
Room used for other business purposes	0	0	1	0.4
Office for personal use	0	0	0	0
Hallway	1	3.1	4	1.4
Storage room or closet	5	15.6	6	2.2
Garage	2	6.3	10	3.6
Veranda	4	12.5	28	10.1
Other places outside	2	6.3	5	1.8
Other	0	0	2	0.7
Total	**32**	**100**	**276**	**100**

Table 54: Approximate Year Freezer Obtained in NDBP Households

Period	Number	Percentage
1986-2000	3	9.4
2001-2005	2	6.3
2006-2010	8	25.0
2011-2012	0	0
2013-2014	4	12.5
2015-2016	7	21.9
2017-2018	8	25
Total	**32**	**100**

Oldest from	1986
Newest from	2018
Average age	6.8 years old
Median age	4.5 years old

Table 55: Approximate Year Freezer Obtained in Control Group

Period	Number	Percentage
1992-2000	27	10
2001-2005	28	10.3
2006-2010	48	17.7
2011-2012	27	10
2013-2014	42	15.5
2015-2016	67	24.7
2017-2018	32	11.8
Total	**271**	**100**

Oldest from	1992
Newest from	2018
Average age	7 years old
Median age	5 years old

Table 56: Freezer obtained new or used

Obtained New or Used	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
New	30	94	266	97.1
Used	2	6	8	2.9
Total	**32**	**100**	**274**	**100**

Table 57: Freezer obtained locally or overseas

Obtained Locally or Overseas	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Locally	32	100	270	98.5
Overseas	0	0	4	1.5
Total	**32**	**100**	**274**	**100**

Table 58: Freezer Self-defrosting

Self-defrosting	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	12	37.5	106	38
No	20	62.5	173	62
Total	**32**	**100**	**279**	**100**

Table 59: Freezer Door Arrangement

Door Arrangement	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Single top opening door	29	91	267	98.5
Two top opening doors	2	6	2	0.7
Front opening door	1	3	2	0.7
Total	**32**	**100**	**271**	**100**

Table 60: Indicative Freezer Volume in NDBP Households

Indicative Volume in Litres	NDBP Households	
	Number	Percentage
<300	2	6.9
301-400	2	6.9
401-500	11	37.9
501-600	3	10.3
601-700	7	24.1
701-800	0	0
801-900	2	6.9
901-1100	2	6.9
Total	**29**	**100**

Indicative Volume in Litres	NDBP Households
Average	559
Median	488
Maximum	1096
Minimum	255

Table 61: Indicative Freezer Volume in Control Group

Indicative Volume in Litres	Control Group	
	Number	Percentage
50-100	2	0.7
101-200	3	1.1
201-300	16	5.8
301-400	55	19.8
401-500	55	19.8
501-600	39	14.0
601-700	41	14.7
701-800	7	2.5
801-900	18	6.5
901-1000	9	3.2
1001-1100	28	10.1
1101-1200	3	1.1
1201-1626	2	0.7
Total	**278**	**100**

Indicative Volume in Litres	Control Group
Average	581.4
Median	518
Maximum	1626
Minimum	50

With regard to the above estimates of freezer volume, it should be noted that *only* width and height were measured. However, the depth of major appliances is consistent with the depth of built-in cabinets for kitchens. Since they are designed to fit into a kitchen using standard cabinet components – thus to calculate volume, it is reasonable to use 600-620 mm as a depth.[6] For this particular survey, a 600 mm depth was assumed. In addition, it should be noted the exterior was measured. A significant part of the interior consists of various compartments, shelves, trays, drawers, etc. that take up space – thus the actual freezer capacity is smaller than indicated.

[6] Personal communication with Dr. Herbert A. Wade.

Table 62: Quality of Freezer Door Seal

Quality of Door Seal	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Good	31	96.9	257	92.8
Bad	1	3.1	20	7.2
Total	**32**	**100**	**277**	**100**

The method used to assess the quality of door seal was a visual check. Among others, the surveyors were to look at the edge of the door and see if there were are any gaps between the seal and the surface of the freezer chamber. In addition, the door should be opened and checked if the seal appeared clean and there was no black mould or obvious areas where the seal was damaged and may allow warm air to enter the cold space. Furthermore, the surveyors were to look just inside the area where the door seal fits against the freezer body and see if there was any condensate (drops of water) in some areas that indicate that warm air carrying moisture is entering the cold space near those areas. [7]

Table 63: If Freezer is powered on and operating all the time

Powered on and operating all the time	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	31	96.9	271	97.8
No	1	3.1	6	2.2
Total	**32**	**100**	**277**	**100**

Table 64: Average amount the household estimates it pays per month for electricity to run the freezer(s)

Average amount (in US$)	NDBP Households	Control Group
Average	23	21
Median	20	20
Maximum	50	100
Minimum	10	0

[7] Another method involves using a piece of thin cardboard. Specifically open the door and close the door so the piece of cardboard is between the seal and the freezer body. Slide the card up and down the seal area. If it is very easy to slide at some places and noticeably more difficult at others, then the seal is bad. If the seal is ok, the card will stay by itself in any spot on the seal when the door is closed and sliding it will feel about the same, with a little friction, all around the seal.

Table 65: Name of Freezer Manufacturer in NDBP Households

Manufacturer	Number	Percentage
Maytag	4	16.7
Toshiba	1	4.2
Amana	7	29.2
GE	3	12.5
Whirlpool	3	12.5
Toshiba	1	4.2
Avanti	3	12.5
Danby	1	4.2
Haier	1	4.2
Total	**24**	**100**

Table 66: Name of Freezer Manufacturer in Control Group

Manufacturer	Number	Percentage
Maytag	15	8.3
Toshiba	8	4.4
Amana	38	21.1
GE	63	35.0
Danby	2	1.1
LG	1	0.6
Whirlpool	1	0.6
Frigidaire	7	3.9
Hotpoint	2	1.1
Toshiba	8	4.4
Avanti	4	2.2
Kenmore	4	2.2
Haier	11	6.1
GMG	1	0.6
Shacklock	1	0.6
Eskimo	3	1.7
Kelvinator	7	3.9
Tatung	1	0.6
Kirkland	2	1.1
Hamilton Beach	1	0.6
Total	**180**	**100**

Table 67: Energy Label on Freezer

Energy Label	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	5	15.6	2	0.7
No	27	84.4	274	99.3
Total	**32**	**100**	**276**	**100**

Table 68: Plans to Replace Freezer(s)

Plans to Replace	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	1	3	10	3.6
No	31	97	265	96.4
Total	**32**	**100**	**275**	**100**

Air Conditioners

Table 69: Number of Air Conditioners in Surveyed Households

Number of ACs in Surveyed Households	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
No AC	7	17.9	243	55.1
1 AC	16	41	109	24.7
2 ACs	5	12.8	63	14.3
3 ACs	9	23.1	25	6
4 ACs	2	5.1	1	0.2
Total	**39**	**100**	**441**	**100**

Number of ACs in Surveyed households	NDBP Households	Control Group
Total	61	314
Average	1.6	0.7
Median	1	0
Maximum	4	4
Minimum	0	0

Table 70: Location of Air Conditioners

Location	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Sleeping room	58	95.1	273	87.5
Eating room	0	0	0	0
Main living room	3	4.9	30	9.6
Cooking area (Kitchen)	0	0	5	1.6
Shop	0	0	1	0.3
Room used for other business purposes	0	0	2	0.6
Office for personal use	0	0	1	0.3
Other	0	0	0	0
Total	**61**	**100**	**312**	**100**

Table 71: Type of Air Conditioner

Type	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Window unit	45	73.8	249	79.3
Split unit	16	26.2	65	20.7
Ceiling unit	0	0	0	0
Portable unit	0	0	0	0
Total	**61**	**100**	314	100

Table 72: Approximate Year AC Obtained in NDBP Households

Period	Number	Percentage
2003-2005	1	1.7
2006-2010	4	6.9
2011-2012	1	2
2013-2014	12	20.7
2015-2016	28	48.3
2017-2018	12	21
Total	**58**	**100**

Oldest from	2003
Newest from	2018
Average age	3.3 years old
Median age	3 years old

Table 73: Approximate Year AC Obtained in Control Group

Period	Number	Percentage
1990-1995	1	0.3
1996-2000	7	2.2
2001-2005	15	4.8
2006-2010	43	13.8
2011-2012	16	5.1
2013-2014	35	11.2
2015-2016	102	32.7
2017-2018	93	29.8
Total	**312**	**100**

Oldest from	1990
Newest from	2018
Average age	4.2 years old
Median age	3 years old

Table 74: AC obtained new or used

Obtained New or Used	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
New	61	100	297	96
Used	0	0	11	4
Total	**61**	**100**	**308**	**100**

Table 75: AC obtained locally or overseas

Obtained Locally or Overseas	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Locally	61	100	312	99.7
Overseas	0	0	1	0.3
Total	**61**	**100**	**313**	**100**

Table 76: If the Condenser is Shaded most of the Day

	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	53	89.8	237	76.2
No	6	10.2	74	23.8
Total	**59**	**100**	**311**	**100**

Table 77: For Split Units if the Pipe Insulation Outside is Intact

	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	22	73.3	73	51
No	8	26.7	70	49
Total	**30**	**100**	**143**	**100**

Concerning NDBP households according to the responses provided here there are a total of 30 split systems, but according to the answers provided above to the question on type of unit (Table 78) there are only 16 split units. Thus, a significant discrepancy. The same is the case for the control group. According to the responses provided here there are (at least) a total of 143 split systems, but according to the answers provided above to the question on type of unit (Table 78) there are only 65 split units.

Table 78: Condition of the AC

Number of ACs in Surveyed Households	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Most of the metal at the bottom of the outdoor unit has fallen off due to corrosion	2	3.3	7	2.2
Some of the metal at the bottom of the outdoor unit has fallen off due to corrosion	1	1.7	4	1.3
Some metal at the bottom of the outdoor unit is corroded	4	6.7	32	10.3
Only little corrosion around the frame outside	15	25	93	29.8
Like new outside	38	63.3	176	56.4
Total	**60**	**100**	**312**	**100**

Table 79: If there is a Remote-Control Unit for the AC

	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	39	66.1	212	68.8
No	20	33.9	96	31.2
Total	**59**	**100**	**308**	**100**

Table 80: Watts Rating (Nameplate) for AC in NDBP Households

	NDBP Households	
	Number	Percentage
<500	6	14.6
501-1000	18	43.9
1001-2000	10	24.4
2001-2900	7	17.1
Total	**41**	**100.0**

Watts Rating (Nameplate)	NDBP Households
Average	1121
Median	990
Maximum	445
Minimum	2900

The information we were after is how many Watts the A/C draws on average as it is working (the surveyors were informed to enter the Watts number written next to 'Rated Power Input', 'Normal Input' or 'Min').

Table 81: Watts Rating (Nameplate) for ACs in Control Group

	Control Group	
	Number	**Percentage**
490-1000	145	76.7
1001-2000	33	17.5
2001-3000	8	4.2
3001-3650	3	1.6
Total	**189**	**100**

Watts Rating (Nameplate)	**Control Group**
Average	901.0
Median	800
Maximum	300
Minimum	3650

Table 82: BTU Rating for ACs in NDBP Households

	NDBP Households	
	Number	**Percentage**
500-5000	28	50
5001-10000	20	35.7
10001-15000	2	3.6
15001-20000	4	7.1
20001--24000	2	3.6
Total	**56**	**100**

BTU Rating	**NDBP Households**
Average	7920
Median	5500
Maximum	500
Minimum	24000

Table 83: BTU Rating for ACs in Control Group

	Control Group	
	Number	Percentage
900-5000	166	54
5001-10000	102	33.4
10001-15000	26	8.5
15001-20000	7	2.3
20001--24000	4	1.3
Total	**305**	**100**

BTU Rating	Control Group
Average	7213.8
Median	5000
Maximum	900
Minimum	24000

Table 84: Average amount the household estimates it pays per month for electricity to run the AC

Average amount (in US$)	NDBP Households	Control Group
Average	30	34
Median	25	25
Maximum	150	150
Minimum	0	0

Table 85: Hours of use per Day

Hours of use per Day	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
0	8	14	19	6.1
1-6	13	22.8	65	21.0
7-12	34	59.6	184	59.5
13-18	1	1.8	16	5.2
19-24	1	1.8	25	8.1
Total	**57**	**100**	**309**	**100**

Hours of use per Day	NDBP Households	Control Group
Average	8	9.4
Median	10	8
Maximum	23	24
Minimum	0	0

Table 86: Condition of Evaporator Filter

Condition	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Clean and free air flow	48	88.9	271	89.7
Some area clogged but generally clean	5	9.3	27	8.9
Partially clogged (50% or less)	0	0	3	1
Mostly clogged (over 50%)	0	0	0	0
No filter at all	1	1.9	1	0.3
Total	**54**	**100**	**302**	**100**

Table 87: If Noise from the AC is Considered a Problem

	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	8	13.1	27	8.8
No	53	86.9	281	91.2
Total	**61**	**100**	**308**	**100**

Table 88: Plans to Replace AC(s)

Plans to Replace	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	1	1.6	16	5.3
No	60	98.4	286	94.7
Total	**61**	**100**	**302**	**100**

Table 89: Name of AC Manufacturer in NDBP Households

Manufacturer	Number	Percentage
Perfect Aire	5	13.9
Comfort-Aire	7	19.4
Danby	2	5.6
Amana	1	2.8
Whirlpool	5	13.9
Chico	4	11.1
Carrier	1	2.8
GE	6	16.7
Philips	1	2.8
Haier	2	5.6
LG	2	5.6
Total	**36**	**100**

Table 90: Name of AC Manufacturer in Control Group

Manufacturer	Number	Percentage
Perfect Aire	6	2.5
Comfort-Aire	6	2.5
Danby	3	1.2
Amana	4	1.6
Whirlpool	16	6.6
Chigo	56	23.0
Carrier	6	2.5
GE	76	31.1
Haier	16	6.6
GMG	2	0.8
Arctic Air	1	0.4
Sharp	4	1.6
Gree	2	0.8
Infinity	3	1.2
Panasonic	1	0.4
Kenmore	5	2.0
Sanyo	9	3.7
LG	28	11.5
Total	**244**	**100**

Small Electrical Appliances

It should be noted, though a washing machine is not usually considered a small appliance, it is listed here since its use did not justify a separate sheet (however, there are several types of washing machines so each type had a separate code). Also, a dishwasher is not usually considered a small appliance, but as available information indicated they are rare in households in Palau, a separate sheet was not needed.

Table 91: Total Number of Small Electrical Appliances in Surveyed Households

Total Number	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
0	0	0	2	0.4
1-10	36	92	430	96.6
11-22	3	8	13	2.9
Total	**39**	**100**	**445**	**100**

Number of Small Electrical Appliances in Surveyed Households	NDBP Households	Control Group
Total	184	1906
Average	4.7	4.3
Median	3	4
Max	19	22
Min	1	0

Table 92: Total Number of Each Type of Small Electrical Appliance in Surveyed Households

Type of Small Electrical Appliance	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Rice cooker	39	21.4	433	22.9
Electric kettle	5	2.7	66	3.5
Electric frying pan	2	1.1	8	0.4
Electric griddle	4	2.2	19	1
Table top electric oven	4	2.2	57	3
Hot water dispenser (always hot)	0	0	6	0.3
Washing machine (top loading single tub)	9	4.9	72	3.8
Washing machine (top loading dual tub)	3	1.65	92	4.9
Washing machine front loading	0	0	6	0.3
Washing machine with wringer	0	0	3	0.2
Electric water cooler	0	0	2	0.1
Electric hair clipper	5	2.7	30	1.6
Electric sewing machine	0	0	0	0
Electric dishwasher	0	0	0	0
Toaster	33	18.1	303	16
Radio	6	3.3	118	6.2
Flashlight	1	0.5	5	0.3
Battery charger	3	1.6	5	0.3
Blender	9	4.9	136	7.2
Hair dryer	1	0.5	25	1.3
Hair straightener	2	1.1	28	1.5
Clothes dryer	4	2.2	19	1
Coffee machine	10	5.5	146	7.7
Stereo	4	2.2	35	1.8
Sandwich maker	4	2.2	42	2.2
Food processor	4	2.2	10	0.5
Vacuum cleaner	8	4.4	54	2.9
Electric glue gun	0	0	0	0
Electric welder	0	0	4	0.2
Electric mixer	1	0.5	10	0.5
Musical keyboard	1	0.5	2	0.1
Electric water pump	0	0	4	0.2
Electric drill	4	2.2	27	1.4
Bread making machine	0	0	0	0
Impulse bag sealer	0	0	1	0.1
Slow cooker	7	3.8	43	2.3
Sanding machine	2	1.1	9	0.5
Electric coconut scraper	1	0.5	6	0.3
Circular saw	3	1.6	23	1.2
Mitre saw	1	0.5	2	0.1
Grinding machine	1	0.5	7	0.4
Other	1	0.5	36	1.9
Total	**182**	**100**	**1894**	**100**

Table 93: Hours of use per Week for Rice Cookers

Hours of Use	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
0	0	0	2	0.5
<0-1	7	17.9	67	15.6
1.1-3.9	19	48.7	158	36.8
4-5.9	2	5.1	49	11.4
6-10.9	7	17.9	127	29.6
11-20.9	3	7.7	17	4
21-50.9	1	2.6	9	2.1
51-80.9	0	0	0	0
81-110.9	0	0	0	0
111-140.9	0	0	0	0
141-168	0	0	0	0
Total	**39**	**100**	**429**	**100**

Table 94: Hours of use per Week for Toasters

Hours of Use	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
0	4	12.1	18	6
<0-1	26	78.8	196	65.1
1.1-3.9	1	3.0	55	18.3
4-5.9	1	3.0	13	4.3
6-10.9	1	3.0	18	6.0
11-20.9	0	0	0	0.0
21-50.9	0	0	1	0.3
51-80.9	0	0	0	0
81-110.9	0	0	0	0
111-140.9	0	0	0	0
141-168	0	0	0	0
Total	**33**	**100**	**301**	**100**

Table 95: Watts for Rice Cookers

Watts	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
>0-500	15	38	151	35.2
501-1000	23	59	246	57.3
1001-1500	1	3	32	7.5
Total	**39**	**100**	**429**	**100**

Table 96: Watts for Toasters

Watts	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
>0-500	1	3	37	15.2
501-1000	23	74	187	76.6
1001-1500	7	23	18	7.4
1501-3000	0	0	2	0.8
Total	**31**	**100**	**244**	**100**

Note that the values listed in tables 102-103 are label Watts. The Watts rating given on appliance labels is the maximum that may occur and is listed mainly to assure that the customer plugs the appliance in an outlet that can handle that maximum level of power demand. The actual usage often is a fraction of that maximum power demand. Thus, for electrical appliances high Wattage does indicate high watt-hours, but the actual number depends on usage. Because usage patterns of many electrical appliances have such an effect on kWh, it is practically impossible to develop a reliable energy use profile for a particular appliance without actually measuring it. Instead what is looked for in this survey is: 1) the mix of electrical appliances that people actually use; and 2) their relative power requirements. So, in identifying and designing programmes through 1) it can be known what appliances to address and through 2) it can be assessed which appliances are probably the most inefficient.

Desktop and Laptop Computers

In this section results are reported for desktop and laptop computers. Later there is a section dealing with tablet computers.

Table 97: Total Number of Desktop and Laptop Computers in Surveyed Households

Total Number	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
0	25	64.1	353	79.7
1	12	31	63	14.2
2	2	5.1	19	4.3
3	0	0	7	1.6
4	0	0	1	0.2
Total	**39**	**100**	**443**	**100**

Number of Desktop and Laptop Computers in Surveyed Households	NDBP Households	Control Group
Total	16	126
Average	0.4	0.3
Median	0	0
Max	2	4
Min	0	0

Table 98: Location of Desktop and Laptop Computers

Location	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Sleeping room	7	50	81	65.3
Eating room	0	0	1	0.8
Main living room	6	42.9	36	29.0
Cooking area (Kitchen)	0	0	1	0.8
Shop	1	7.1	0	0
Room used for other business purposes	0	0	1	0.8
Office for personal use	0	0	2	1.6
Other	0	0	2	1.6
Total	**14**	**100**	**124**	**100**

Table 99: Approximate Year Desktop/Laptop Obtained in NDBP Households

Period	Number	Percentage
2011-2012	1	6.7
2013-2014	6	40
2015-2016	4	26.7
2017-2018	4	26.7
Total	**15**	**100**

Oldest from	2011
Newest from	2018
Average age	3.1 years old
Median age	3 years old

Table 100: Approximate Year Desktop/Laptop Obtained in Control Group

Period	Number	Percentage
2003-2005	2	1.6
2006-2010	12	9.8
2011-2012	9	7.3
2013-2014	16	13.0
2015-2016	43	35.0
2017-2018	41	33.3
Total	**123**	**100**

Oldest from	2003
Newest from	2018
Average age	3.3 years old
Median age	3 years old

Table 101: Obtained new or used

Obtained New or Used	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
New	14	93	116	93.5
Used	1	7	8	6.5
Total	**15**	**100**	**124**	**100**

Table 102: Obtained Locally or Overseas

Obtained Locally or Overseas	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Locally	10	67	85	68
Overseas	5	33	40	32
Total	**15**	**100**	**125**	**100**

Table 103: Type of Monitor

Type of Monitor	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Flat screen	15	100	123	99
CRT	0	0	1	1
Total	**15**	**100**	**124**	**100**

Table 104: Screen Size in NDBP Households

Diagonal in Inches	NDBP Households	
	Number	Percentage
12-20	10	71
21-25	4	29
Total	**14**	**100**

Diagonal in Inches	NDBP Households
Average	17
Median	15
Maximum	25
Minimum	12

Table 105: Screen Size in Control Group

Diagonal in Inches	Control Group	
	Number	Percentage
7-10	6	5
11-20	104	84
21-30	10	8
31-32	4	3
Total	124	100

Diagonal in Inches	Control Group
Average	15.3
Median	14
Maximum	32
Minimum	7

Table 106: Type of Computer

Type	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Laptop	4	27	23	18
Desktop	11	73	102	82
Total	**15**	**100**	**125**	**100**

Table 107: Laser Printer in Household

Laser Printer	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	2	13	20	16
No	13	87	106	84
Total	**15**	**100**	**126**	**100**

Table 108: Inkjet Printer in Household

Inkjet Printer	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	2	13	14	11
No	13	87	112	89
Total	**15**	**100**	**126**	**100**

Table 109: Hours of use per day during the week on Schooldays

Hours of use per Day	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
0	0	0	10	8
1-6	13	87	97	78
7-12	1	7	13	10
13-18	0	0	2	2
19-24	1	7	2	2
Total	**15**	**100**	**124**	**100**

Table 110: Hours of use per day during the week on School Holidays

Hours of use per Day	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
0	0	0	13	10
1-6	10	71	88	70
7-12	4	29	20	16
13-18	0	0	1	1
19-24	0	0	3	2
Total	**14**	**100**	**125**	**100**

Table 111: Hours of use on Saturdays

Hours of use per Day	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
0	0	0	15	12
1-6	10	71	77	62
7-12	3	21	28	22
13-18	0	0	2	2
19-24	1	7	3	2
Total	**14**	**100**	**125**	**100**

Table 112: Hours of use on Sundays

Hours of use per Day	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
0	0	0	18	15
1-6	10	71	75	61
7-12	3	21	25	20
13-18	0	0	1	1
19-24	1	7	4	3
Total	**14**	**100**	**123**	**100**

Table 113: Plans to Replace

Plans to Replace	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	0	0	8	6
No	15	100	117	94
Total	**15**	**100**	**125**	**100**

Table 114: Type of Work the Computer is mostly used for

Type of Work	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Facebook, You Tube and other Internet sites	0	0	15	11
Research, looking up information	7	47	21	15
School work	3	20	23	17
Writing documents	5	33	21	15
Finance and accounts	0	0	15	11
E-mail	0	0	9	7
Games	0	0	1	1
Movies	0	0	30	22
Other	0	0	2	1
Total	**15**	**100**	**137**	**100**

Table 115: If the Equipment above is left Connected to the Power all the time

If the Equipment above is left Connected to the Power all the time	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	4	27	23	19
No	11	73	101	81
Total	**15**	**100**	**124**	**100**

Table 116: If there Internet access at the home

Internet Access at Home	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	11	73	88	70
No	4	27	38	30
Total	**15**	**100**	**126**	**100**

Table 117: If there is Wi-Fi at Home

Wi-Fi at Home	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	11	73	85	69
No	4	27	38	31
Total	**15**	**100**	**123**	**100**

Microwave Ovens

Table 118: Microwave Oven in Household

If Microwave Oven in Household	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	21	54	181	41
No	18	46	259	59
Total	**39**	**100**	**440**	**100**

Table 119: Mode for Setting Operating Time

Mode for Setting Operating Time	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Knob	1	5	13	7
Buttons	20	95	167	93
Total	**21**	**100**	**180**	**100**

Table 120: Average Use per Day in Minutes

Use per Day in Minutes	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
0	1	5.3	6	3.4
1-10	15	78.9	141	78.8
11-20	1	5.3	15	8.4
21-30	1	5.3	15	8.4
31-45	1	5.3	2	1.1
Total	**19**	**0**	**179**	**0**

Use per Day in Minutes	NDBP Households	Control Group
Average	7.4	7.3
Median	2	5
Maximum	45	45
Minimum	0	0

Table 121: If the Microwave Oven is plugged in and power on to the charger all the time

Plugged in and Power on to the Charger all the Time	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	5	24	77	41
No	16	76	112	59
Total	**21**	**100**	**189**	**100**

Mobile Phones

Table 122: Number of Mobile Phones in use by Household Members

Number of Mobiles Phones	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
0	0	0	28	6.4
1	4	10	58	13.2
2	11	28	128	29.1
3	10	26	98	22.3
4	7	18	48	10.9
5	5	13	35	8
6	1	3	20	4.5
7	1	3	11	2.5
8	4	10	5	1.1
9	0	0	2	0.5
10	0	0	5	1.1
11	0	0	0	0
12	0	0	2	0.5
Total	**39**	**100**	**440**	**100**

Number of Mobiles Phones	NDBP Households	Control Group
Average	3.1	3.0
Median	3	3
Maximum	7	12
Minimum	1	0

Table 123: If chargers are left plugged in and powered all the time

If Chargers are left Plugged in and Powered all the Time	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	6	15	35	8
No	33	85	379	92
Total	**39**	**100**	**414**	**100**

Tablet Computers

Table 124: Number of Tablet Computers in Households

Number of Tablet Computers	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
0	21	54	258	62
1	11	28	99	24
2	5	13	42	10
3	2	5	11	3
4	0	0	6	1
Total	**39**	**100**	**416**	**100**

Number of Tablet Computers in Surveyed Households	NDBP Households	Control Group
Average	0.7	0.6
Median	0	0
Max	3	4
Min	0	0

Table 25: If chargers are left plugged in and powered all the time

If Chargers are left Plugged in and Powered all the Time	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	1	5	10	6
No	19	95	157	94
Total	**20**	**100**	**167**	**100**

Water Heaters

Table 126: If there is a Solar Water Heater

	NDBP Households		Control Group	
	Number	**Percentage**	**Number**	**Percentage**
Yes	1	3	3	0.7
No	38	97	423	99.3
Total	**39**	**100**	**426**	**100**

Table 127: If there is an Electric Back-up Heater

	NDBP Households		Control Group	
	Number	**Percentage**	**Number**	**Percentage**
Yes	0	0	1	11
No	1	100	8	89
Total	**1**	**100**	**9**	**100**

Table 128: If there is a Tank Type Water Heater

	NDBP Households		Control Group	
	Number	**Percentage**	**Number**	**Percentage**
Yes	1	3	10	2.4
No	38	97	408	97.6
Total	**39**	**100**	**418**	**100**

Table 129: Electric or Gas Tank Type Water Heater

	NDBP Households		Control Group	
	Number	**Percentage**	**Number**	**Percentage**
Electric	1[8]	100	7[9]	78
Gas	0	0	2	22
Total	**1**	**100**	**9**	**100**

[8] The one electric water heater was rated at 2629 watts (nameplate).

[9] The electric water heaters are rated at the following watts (nameplate): 4500, 1500, 4500, 1100, 1650 & 4989.

Table 130: If there an 'Instant on' Water Heater

	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	10	26	33	7.7
No	29	74	393	92.3
Total	**39**	**100**	**426**	**100**

Table 131: Electric or Gas Tank Type 'Instant-on' Water Heater

	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Electric	10[10]	100	33	100
Gas	0	0	0	0
Total	**10**	**100**	**33**	**100**

Table 132: Watts Rating (Nameplate) for Electric Type 'Instant-on' Water Heater

Watts	Control Group	
	Number	Percentage
818-1000	5	17
1001-5000	4	14
5001-10000	19	66
10011-15002	1	3
Total	**29**	**100**

Watts	Control Group
Average	6681.7
Median	8800
Maximum	15002
Minimum	818

[10] 3 are rated at 8800 watts and one at 1100 watts.

Fans

Table 133: Number of Fans in Households

Number of Fans	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
No fans	2	5.1	10	2.3
1	1	2.6	51	11.5
2	9	23.1	120	27.1
3	8	20.5	116	26.2
4	7	17.9	74	16.7
5	5	12.8	34	7.7
6	4	10.3	20	4.5
7	1	2.6	10	2.3
8	2	5.1	6	1.4
9	0	0	1	0.2
Total	**39**	**100**	**442**	**100**

Number of Fans in Surveyed Households	NDBP Households	Control Group
Total	143	1352
Average	3.7	3.1
Median	3	3
Max	8	9
Min	0	0

Table 134: Number of Different Types of Fans

Type of Fan	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Celling fan	42	29.4	91	6.8
Table fan	13	9.1	219	16.2
Standing fan	85	59.4	937	69.5
Floor fan	3	2.1	83	6.2
Window fan	0	0	3	0.2
Wall mounted fan	0	0	13	1.0
Homemade fan	0	0	0	0
Other	0	0	2	0.1
Total	**143**	**100**	**1348**	**100**

Table 135: Hours of Use per Day

Use per Day in Hours	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
0	28	20	27	2
>0-6	53	37	415	30.8
7-12	59	41	809	60.1
13-18	2	1	57	4.2
19-24	1	1	38	2.8
Total	**143**	**100**	**1346**	**100**

Use per Day in Hours	NDBP Households	Control Group
Average	5.9	8.4
Median	6	8
Maximum	24	24
Minimum	0	0

Table 136: Watts for Fans in NDBP Households

Watts (Nameplate)	NDBP Households	
	Number	Percentage
>0-12	1	1.0
11-20	4	4
21-30	4	4
31-40	5	5
40-50	8	8
51-60	21	21
61-70	1	1
71-80	11	11
81-90	0	0.0
91-100	1	1
101-177	42	43
Total	**98**	**100**

Watts (Nameplate)	NDBP Households
Average	102
Median	75
Maximum	177
Minimum	12

Table 137: Watts for Fans in Control Group

Watts (Nameplate)	Control Group	
	Number	Percentage
20-50	321	25.9
51-100	288	23.2
101-150	270	21.8
151-200	358	28.8
201-297	4	0.3
Total	**1241**	**100**

Watts (Nameplate)	Control Group
Average	100
Median	75
Maximum	297
Minimum	20

Table 138: Location of Fans

Location of Fans	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Sleeping room	75	52.8	735	56.6
Eating room	5	3.5	52	4
Main living room	53	37.3	440	33.9
Cooking area	7	4.9	55	4.2
Shop	1	0.7	3	0.2
Room used for other business purposes	0	0	1	0.1
Office for personal use	0	0	0	0
Other	1	0.7	13	1
Total	**142**	**100**	**1299**	**100**

Cooking

It should be noted that the following categories were used for estimated usage:

- *Small*
  - Usage of around ¼ of the time or less/used only once in a while.
- *Medium*
  - Used for cooking from ¼ to half the time.
- *Large*
  - More than half the time, thus the main means for cooking.

Electricity

Table 139: Electric Cooking Unit in Households

Electric Cooking Unit	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	18	46	106	24
No	21	54	336	76
Total	**39**	**100**	**442**	**100**

Table 140: Estimated usage of Electric Cooking Unit

Estimated usage	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Small	9	50	51	48
Medium	2	11	27	25
Large	7	39	28	26
Total	**18**	**100**	**106**	**100**

Gas

Table 141: Gas Cooking Unit in Households

Gas Cooking Unit	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	37	95	416	95
No	2	5	24	5
Total	**39**	**100**	**440**	**100**

Table 142: Estimated usage of Gas Cooking Unit

Estimated usage	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Small	5	14	11	3
Medium	3	8	26	6
Large	29	78	379	91
Total	**37**	**100**	**416**	**100**

Kerosene

Table 143: Kerosene Cooking Unit in Households

Kerosene Cooking Unit	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	3	7.7	56	13
No	36	92.3	384	87
Total	**39**	**100**	**440**	**100**

Table 144: Estimated usage of Kerosene Cooking Unit

Estimated usage	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Small	1	33	21	38
Medium	2	67	27	48
Large	0	0	8	14
Total	**3**	**100**	**56**	**100**

Wood

Table 145: Cooking with Wood in Households

Cooking with Wood	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	11	28	172	39
No	28	72	268	61
Total	**39**	**100**	**440**	**100**

Table 146: Estimated usage of Wood

Estimated usage	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Small	9	82	90	53
Medium	2	18	78	46
Large	0	0	2	1
Total	**11**	**100**	**170**	**100**

Other Cooking Fuels

Table 147: Cooking with Other Fuels in Households

Cooking with other Fuels	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	5	13	11	3
No	34	87	422	97
Total	**39**	**100**	**433**	**100**

Multiple Cooking Fuels

Table 148: Total Number of Cooking Fuels Used in Households

Total Number of Cooking Fuels Used in Households	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Zero cooking fuels	0	0	6	1.4
One cooking Fuel	18	46.2	202	45.7
Two cooking Fuels	12	30.8	153	34.6
Three cooking Fuels	9	23.1	72	16.3
Four cooking Fuels	0	0	8	1.8
Five cooking Fuels	0	0	1	0.2
Total	**39**	**100**	**442**	**100**

Number of Cooking Fuels	NDBP Households	Control Group
Average	1.8	1.7
Median	2	2
Maximum	3	5
Minimum	1	0

Television

Table 149: Total Number of TVs in Households

Number of TVs	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
No TV	2	5.1	89	20.2
1	26	66.7	262	59.5
2	9	23.1	68	15.5
3	1	2.6	19	4.3
4	1	2.6	2	0.5
Total	**39**	**100**	**440**	**100**

Number of TVs	NDBP Households	Control Group
Total	51	463
Average	1.3	1.1
Median	1	1
Maximum	4	4
Minimum	0	0

Table 150: Location of TVs

Location of Fans	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Sleeping room	19	38	138	30
Eating room	0	0	10	2
Main living room	31	62	302	66
Cooking area	0	0	4	1
Shop	0	0	0	0
Room used for other business purposes	0	0	0	0
Office for personal use	0	0	0	0
Other	0	0	1	0
Total	**50**	**100**	**455**	**100**

Table 151: Approximate Year Obtained in NDBP Households

Period Obtained	NDBP Households	
	Number	Percentage
1996-2000	7	14
2001-2005	2	4
2006-2010	4	8
2011-2012	3	6
2013-2014	5	10
2015-2016	17	34
2017-2018	12	24
Total	**50**	**100**

	NDBP Households
Oldest from	1996
Newest from	2018
Average age	5.8 years old
Median	3 years old

Table 152: Approximate Year Obtained in Control Group

Period Obtained	NDBP Households	
	Number	Percentage
1990-2000	22	5
2001-2005	11	2
2006-2010	40	9
2011-2012	36	8
2013-2014	59	13
2015-2016	175	39
2017-2018	106	24
Total	**449**	**100**

	Control Group
Oldest from	1990
Newest from	2018
Average age	4.4 years old
Median	3 years old

Table 153: Obtained new or used

Obtained New or Used	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
New	49	98	451	98.7
Used	1	2	6	1.3
Total	**50**	**100**	**457**	**100**

Table 154: Obtained Locally or Overseas

Obtained Locally or Overseas	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Locally	46	93.9	436	99.1
Overseas	3	6.1	4	0.9
Total	**49**	**100**	**440**	**100**

Table 155: Type of Monitor

Type of Monitor	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Flat screen	41	82	379	82.4
CRT	9	18	81	17.6
Total	**50**	**100**	**460**	**100**

Table 156: Screen Size in NDBP Households

Diagonal in Inches	NDBP Households	
	Number	Percentage
13-20	11	22.4
21-30	4	8.2
31-40	29	59
41-50	4	8.2
51-52	1	2.0
Total	**49**	**100**

Diagonal in Inches	NDBP Households
Average	31.4
Median	32
Maximum	60
Minimum	12

Table 157: Screen Size in Control Group

Diagonal in Inches	Control Group	
	Number	Percentage
12-20	60	13.5
21-30	100	22.5
31-40	218	49
41-50	57	12.8
51-60	10	2.2
Total	**445**	**100**

Diagonal in Inches	Control Group
Average	31.4
Median	32
Maximum	60
Minimum	12

Table 158: If there is a Satellite or Cable Box

Satellite or Cable Box	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	43	86	387	83.2
No	7	14	78	16.8
Total	**50**	**100**	**465**	**100**

Table 159: TV Remote Control Unit

TV Remote Control Unit	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	48	96	442	96
No	2	4	20	4
Total	**50**	**100**	**462**	**100**

Table 160: Watts in NDBP Households

Watts (Nameplate)	NDBP Households	
	Number	Percentage
24-50	17	44.7
51-100	13	34.2
101-200	7	18.4
201-280	1	2.6
Total	**38**	**100**

Watts (Nameplate)	NDBP Households
Average	71.2
Median	55
Maximum	280
Minimum	24

Table 161: Watts for Fans in Control Group

Watts (Nameplate)	Control Group	
	Number	Percentage
70-100	338	84.7
101-200	46	11.5
201-300	9	2.3
301-400	6	1.5
Total	399	100

Watts (Nameplate)	Control Group
Average	80.1
Median	70
Maximum	400
Minimum	23

Table 162: Hours of use per day during the week on Schooldays

Hours of use per Day	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
0	1	2	15	3.3
1-6	32	64	288	62.5
7-12	15	30	135	29.3
13-18	0	0	10	2.2
19-24	2	4	13	2.8
Total	**50**	**100**	**461**	**100**

Table 163: Hours of use per day during the week on School Holidays

Hours of use per Day	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
0	0	0	16	3
1-6	23	46.9	209	45.3
7-12	23	46.9	199	43.2
13-18	1	2	15	3
19-24	2	4.1	22	4.8
Total	**49**	**100**	**461**	**100**

Table 164: Hours of use on Saturdays

Hours of use per Day	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
0	0	0	18	4
1-6	20	40	163	35
7-12	27	54	237	51
13-18	1	2	20	4
19-24	2	4	24	5
Total	**50**	**100**	**462**	**100**

Table 165: Hours of use on Sundays

Hours of use per Day	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
0	0	0	17	4
1-6	21	42	181	39
7-12	26	52	221	48
13-18	1	2	17	4
19-24	2	4	24	5
Total	**50**	**100**	**460**	**100**

Table 166: Satisfied with Unit

Satisfied with Unit	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	50	100	440	96.1
No	0	0	18	3.9
Total	**50**	**100**	**458**	**100**

Table 167: Plans to Replace

Plans to Replace	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	1	2	25	5.4
No	49	98	438	94.6
Total	**50**	**100**	**463**	**100**

Table 168: If there is a Home Theatre System

Home Theatre System in Household	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	2	4	10	2.2
No	48	96	445	97.8
Total	**50**	**100**	**455**	**100**

Table 169: DVD Player

DVD Player in Household	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	7	14	46	10.2
No	42	86	404	89.8
Total	**49**	**100**	**450**	**100**

Table 170: Number of DVDs played each Week in NDBP Households

Number of DVDs played each Week	NDBP Households	
	Number	Percentage
1	3	43
2	0	0
3	1	14
4	0	0
5	2	29
6	1	14
Total	**7**	**100**

Number of DVDs played each Week	NDBP Households
Average	3.1
Median	3
Maximum	6
Minimum	1

Table 171: Number of DVDs played each Week in Control Group

Number of DVDs played each Week	Control Group	
	Number	Percentage
0	8	17
1-5	26	57
6-10	10	22
11-15	1	2
16-20	1	2
Total	**46**	**100**

Number of DVDs played each Week	Control Group
Average	3.6
Median	2
Maximum	20
Minimum	0

Table 172: Game Console in Household

Game Console in Household	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	1	2	40	8.8
No	48	98	416	91.2
Total	**49**	**100**	**456**	**100**

Table 173: If the Equipment above is Left Connected to the Power all the time

	NDBP Households		Control Group	
	Number	Percentage	Number	Percentage
Yes	31	66	146	51
No	16	34	142	49
Total	47	100	288	100