

Antigua and Barbuda National ICT Household Survey

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Introduction

The national Information and Communications Technology (ICT) Household survey was launched in April of 2008 at a press briefing at the Office of the Prime Minister on the Queen Elizabeth Highway in St. John's Antigua. As stated then, the purpose of the household survey was to gather statistics on the use of ICTs in the national community. The survey follows upon two similar surveys which were conducted recently to gauge the extent of ICT usage with the public sector as well as within the business sector.

In addition to finding out what is going on in the national community vis-à-vis ICTs, it is expected that the results of household ICT survey will provide concrete evidence and facts upon which national ICT policy and strategies can be engineered. In this regard the survey will provide data to help monitor progress towards global development targets, in particular the Millenium Development Goals (MDGs).

The survey gives essential information for planning at national and regional levels. It provides that information on a consistent basis, both about the country as a whole and about Parishes, Villages, Administrative Districts, etc. in relation to one another. Furthermore the results of this national survey can be use as benchmarks for current ICT statistics and will also provide a basis for monitoring and evaluating current and ongoing ICT initiatives.

In 2005 the ***Partnership on Measuring ICT for Development*** (a consortium of United Nations and other developmental agencies¹) developed a core list of ICT indicators to standardize and harmonize ICT statistics at a global level. The purpose of the core list was to develop internationally comparable statistics on the information society that could be collected by all countries. The Antigua and Barbuda ICT Household survey (see page 36) references in large measure the Partnership's list of core indicators on access to, and use of, ICT by households and individuals.

¹ International Telecommunication Union (ITU), Organization for Economic Co-Operation and Development (OECD), United Nations Conference on Trade and Development (UNCTAD), United Nations Educational, Scientific and Cultural Organization (UNESCO) Institute for Statistics, UN ICT Task Force, The World Bank, UN Economic Commission for Africa (ECA), UN Economic Commission for Latin America and the Caribbean (ECLAC), UN Economic and Social Commission for Asia and the Pacific (ESCAP), UN Economic and Social Commission for Western Asia (ESCWA), and EUROSTAT

Survey Mechanisms

By definition, a survey draws on a representative subset of the population and uses this as a proxy for the entire population. In general a sample size of about ten percent (10%) is used and the resulting data is projected as representative of what is taking place as a whole. The ICT Household survey collected its information from the primary unit, the household². Consequently, approximately two thousand four hundred (2400) households (or ten percent (10%) of all households in Antigua and Barbuda) were visited and were requested to complete a short survey questionnaire.

The ICT Household Survey was a collaborative exercise between the Ministry of Information, Broadcasting and Telecommunications and the National Statistics Office (NSO). The Chief Statistician was in overall charge of the Survey process with the day-to-day work being headed by the Senior Statistician of the Census and Surveys section of the NSO. As far as the field work was concerned, a total of about 30 enumerators canvassed the country collecting the data. They were supervised by 4 supervisors and 2 liaison officers.

The country was divided by the NSO, for census and survey taking purposes, into Enumeration Districts (EDs). The EDs are contiguous areas in each of the eight parishes in Antigua as well as in Barbuda. Each ED has stable physical boundaries and contains around 100 households. For the purposes of this exercise approximately 11 households (approximately 10% of households) in each ED were listed to be surveyed. Consequently a 10% sample of the approximately 24,000 households within the 288 Enumeration Districts of the country were assigned to the 30 enumerators. Each enumerator canvassed all of the EDs assigned to him/her and located ALL of the households on the list provided, and enumerated them, only. A field supervisor was assigned to every seven (7) enumerators and the enumerator reported to him/her on a regular basis during the course of the survey.

The ICT Survey was conducted under the General Statistics Act of 1975. Under this Act, both the public and institutions have an obligation to cooperate with survey activities. All individual data is strictly confidential and has to be used for statistical purposes only. This means that the information can only be used for the purpose of compiling statistics and no individual information can be disclosed to anyone outside the survey organization.

² "The concept of household is based on the arrangements made by persons, individually or in groups, for providing themselves with food or other essentials for living. A household may be either (a) a one-person household, that is to say, a person who makes provision for his or her own food or other essentials for living without combining with any other person to form part of a multi-person household, or (b) a multi-person household, that is to say, a group of two or more persons living together who make common provision for food or other essentials for living. The persons in the group may pool their incomes and may, to a greater or lesser extent, have a common budget; they may be related or unrelated persons or constitute a combination of persons both related and unrelated" (UN, 1998, paragraph 1.324).

Survey Results

Profile of Respondents³

Figure 1 and Table 1 indicate that the largest number of households which were surveyed are in the St. John's City and St John's Rural areas. This is primarily because these are the most populated areas in the country and collectively they have about sixty percent (60%) of all the households. The parish of St. Phillip and Barbuda have the smallest number of households; each having only two percent (2%) of the number of households in the country.

As shown in Figure 2, the majority of the respondents were parents. Fifty five percent (55%) were female and thirty three percent (33%) were male (see Figure 5). Sex was not stated for twelve percent (12%) of the interviewees. Figure 6 reveals that except for the parish of St. George the number of females who answered the survey was greater than the number of males.

With regard to the income level of households, about twenty percent (20%) of respondents indicated that their household's monthly income was less than \$2,000 and so they can be considered low income. Fifty percent of the households can be considered middle income. The majority of those so indicating (forty one percent – 41% of respondents) noted that their household income was between \$2,000 and \$5,000. Only two percent (2%) of respondents stated that their household's monthly income exceeded \$10,000. The household income profiles are given in Figure 3, and in Table 2 below. Figure 4 clearly shows that the majority of households in all of the parishes are in the \$2,000 to \$5,000 monthly income range. A weighted scoring model of household income levels shown in Appendix C on page 50 gives a detail listing of enumeration districts categorized by income bracket.

³ The words respondents, interviewee and householder are used interchangeably throughout this document and refers to the person who answered the survey questionnaire.

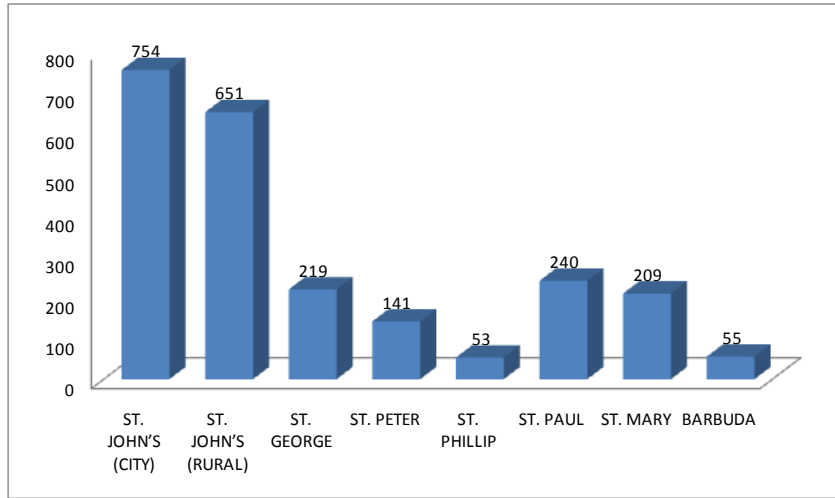


Figure 1: Number of Households Surveyed by Parish

Parish	Number of Eds	Number of Households in Largest ED	Number of Households in Smallest ED	Total Number of Houses in ALL Eds	% Households
ST. JOHN'S (CITY)	63	22	1	754	32%
ST. JOHN'S (RURAL)	36	26	1	651	28%
ST. GEORGE	27	11	1	219	9%
ST. PETER	20	12	10	141	6%
ST. PHILLIP	19	11	11	53	2%
ST. PAUL	14	16	1	240	10%
ST. MARY	5	11	11	209	9%
BARBUDA	6	11	5	55	2%
Grand Total	190			2322	100%

Table 1: Profile of Enumeration Districts by Parish

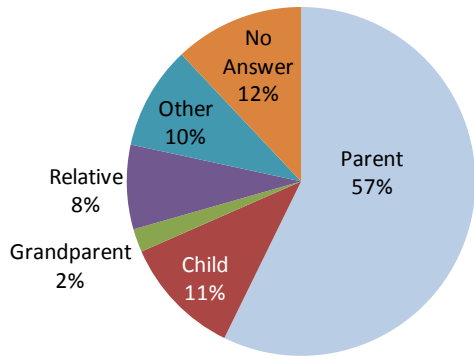


Figure 2: Characteristic of Survey Respondents

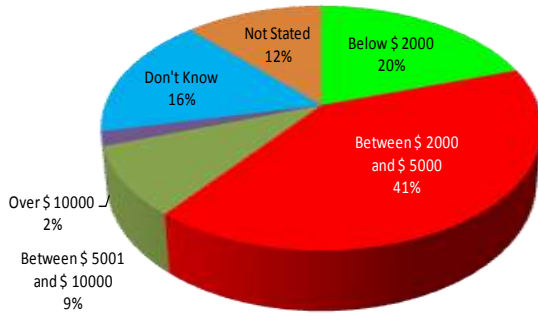


Figure 3: Monthly Income of Households

PARISH	Below \$ 2000	Between \$ 2000 and \$ 5000	Between \$ 5001 and \$ 10000	Over \$ 10000	Don't Know	Not Stated	Total
ST. JOHN'S (CITY)	155	357	55	4	90	93	754
ST. JOHN'S (RURAL)	83	191	59	20	181	117	651
ST. GEORGE	58	81	37	13	23	7	219
ST. PETER	39	51	8	2	28	13	141
ST. PHILLIP	7	26	9	1	9	1	53
ST. PAUL	43	125	35	2	8	27	240
ST. MARY	66	83	4	2	40	14	209
BARBUDA	13	28	5			9	55
TOTAL	464	942	212	44	379	281	2322

Table 2: Household Income Levels by Parish

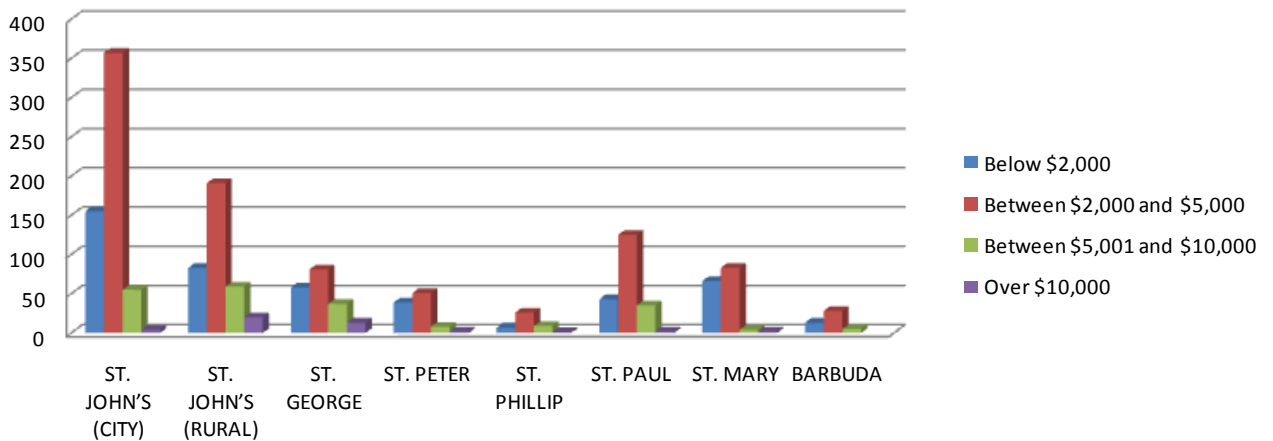


Figure 4: Income Distribution by Parish

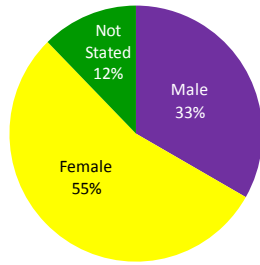


Figure 5: Proportion of Interviewees by Sex

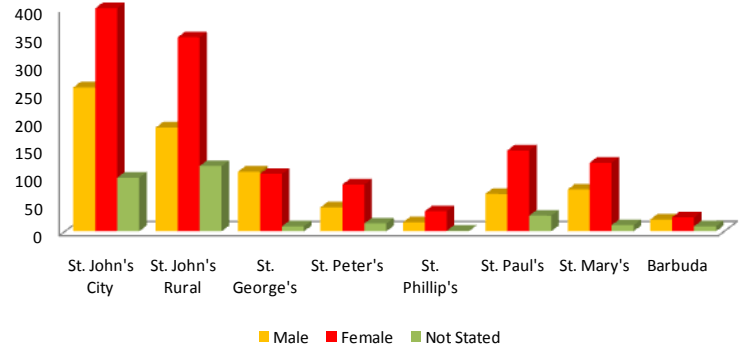


Figure 6: Sex of Respondents by Parish

Old ICTs

Old ICTs refer to communication technologies that predate computers and the Internet. These mainly refer to radios and televisions. The survey has found an almost ubiquitous access to radios and televisions. Eighty two percent (82%) of respondents indicated that they have a radio in their household whilst ninety seven percent (97%) indicated that they have a television. These statistics are shown in Figure 7 and Figure 8.

Seventy two percent (72%) of householders indicated that they have cable television. The proportion of households with cable TV is shown in Figure 9.

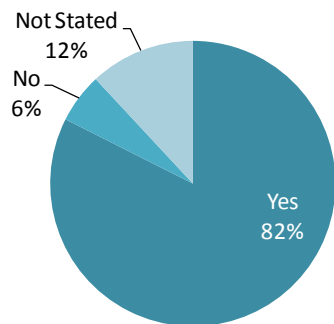


Figure 7: Proportion of Households with Radios

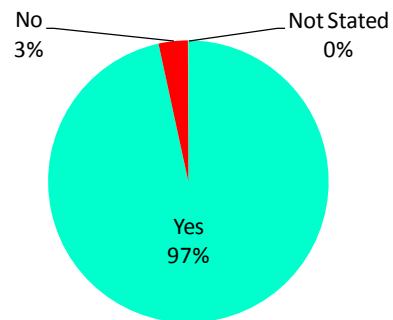


Figure 8: Proportion of Households with TVs

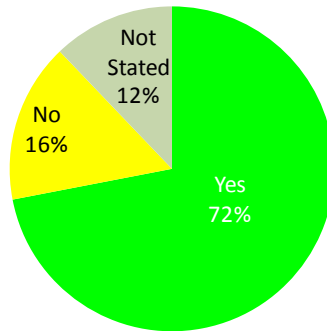


Figure 9: Proportion of Households with Cable TV

Computer Ownership

When asked, less than half of the respondents (47%) indicated that their household owned a computer. This is seen in Figure 10 and in Figure 19. Comparatively, a greater proportion of the households in Barbuda and in St. John’s City own computers than in any other parts in the country. This is reflected in Figure 11, Figure 12 and Figure 13. The majority of interviewees in the parishes of St. John’s Rural, St. Mary, St. Paul, St. John’s City and in Barbuda indicated that their household own one or more computers. This is not so in St. Peter, St. Phillip or in St. George where less than half of the households in these areas own a computer. This is also shown in Figure 13.

When examined by income, the data reveals that the majority of households in the low to upper low income brackets⁴ do not have computers (see Figure 14). Figure 15 through to Figure 18 show the steady increase in computer ownership as income levels rise; from twenty nine percent (29%) for those households with a monthly income below \$2,000 to ninety eight percent (98%) for those households with a monthly income that exceeds \$10,000.

When asked for a reason as to why there are no computers in their household, thirty nine percent (39%) of those without computers stated that they were too expensive. Thirty four percent (34%) indicated that they had other priorities. Only fourteen percent (14%) responded they do not need a computer. This is seen in Figure 20.

⁴ See Appendix C for income ranges

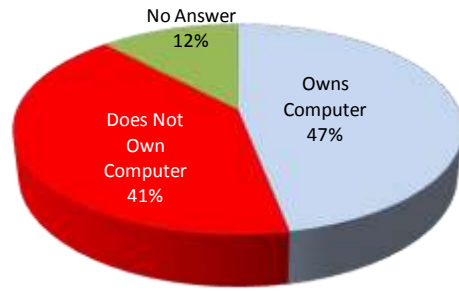


Figure 10: Proportion of Households that own Computers

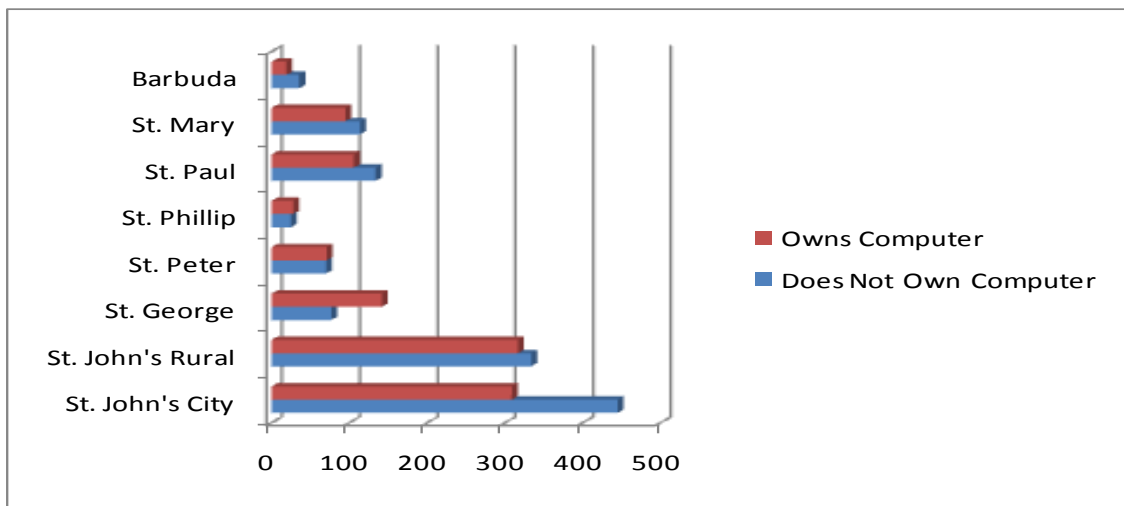


Figure 11: Household ownership of Computers by Parish

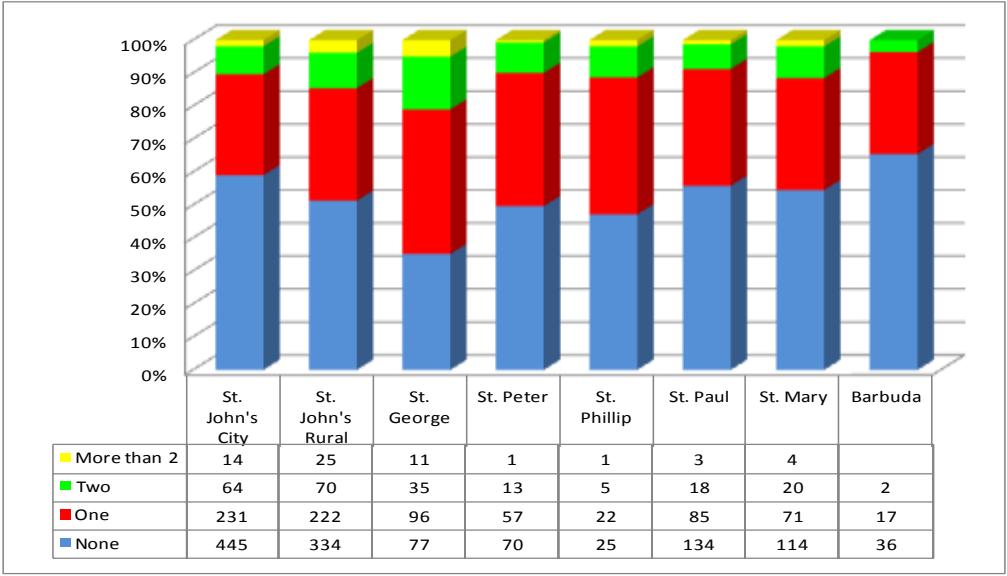


Figure 12: Profile of Household Computer Ownership by Parish

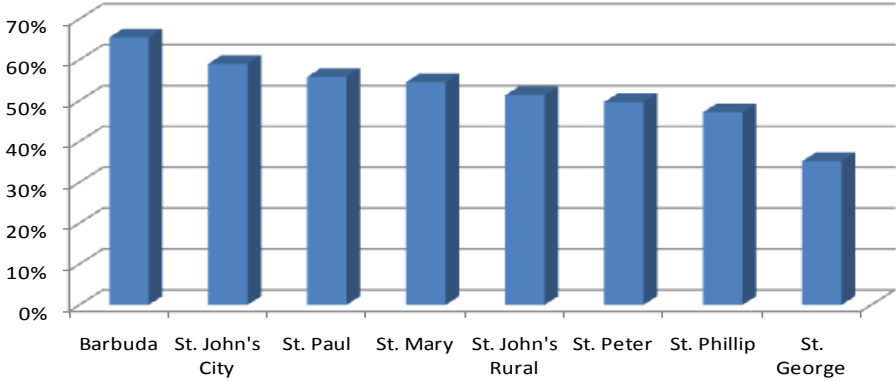


Figure 13: % of Households with computers by Parish

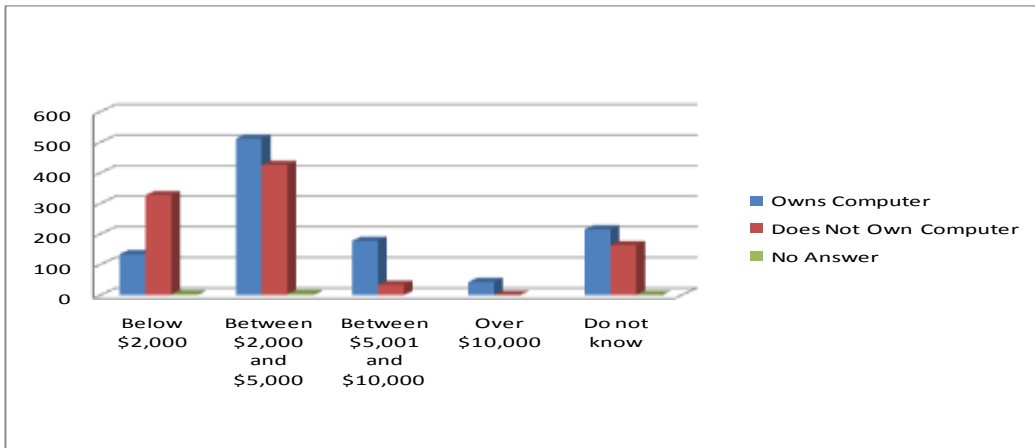


Figure 14: Computer Ownership by Income Levels

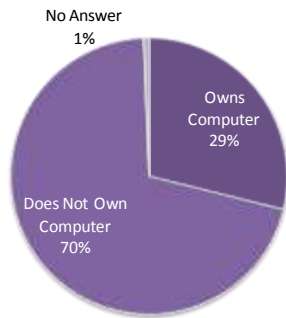


Figure 15: Computer Ownership for Households with Monthly Income below \$2,000

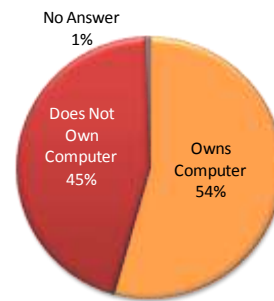


Figure 16: Computer Ownership for Households with Monthly Income between \$2,001 and \$5,000

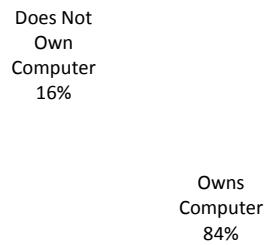


Figure 17: Computer Ownership for Households with Monthly Income between \$5,001 and \$10,000

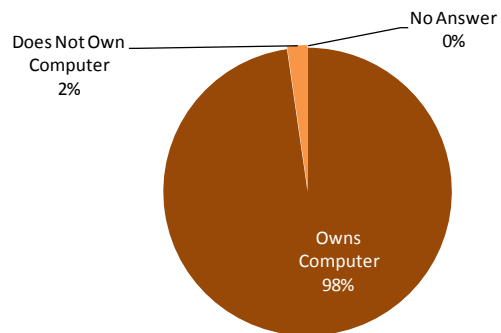


Figure 18: Computer Ownership for Households with Monthly Income over \$10,000

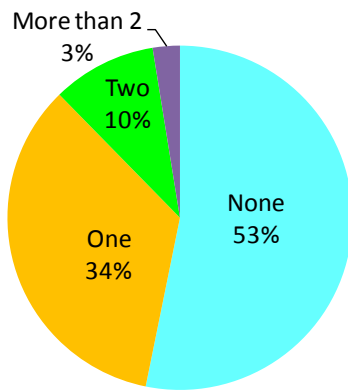


Figure 19: Number of Computers owned by Households

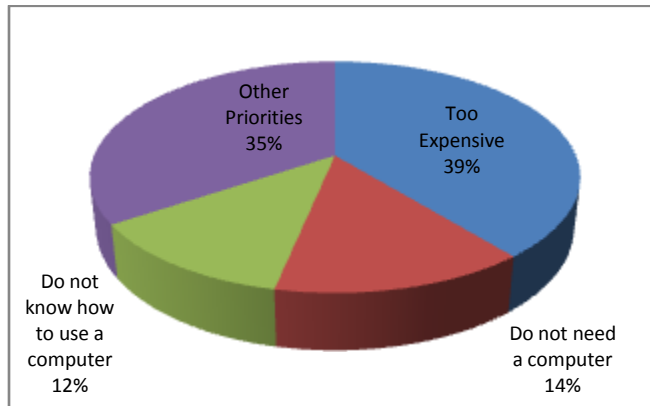


Figure 20: Reasons for Not Owning a Computer

Computer Usage

Though forty seven percent (47%) of households own a computer (see Figure 10) sixty percent (60%) of respondents indicated that they had used a computer during the past 12 months. In fact the table in Appendix D on page 56 confirms that in every enumeration district across the country more households have used computers than those that own computers. Figure 22 shows the usage of computers by households across all parishes. In general over half of all householders in every parish have used a computer in the past year. The area with the highest proportion of householders that have used computers in the past 12 months is the parish of St. George. This is seen in Figure 23.

Figure 24 and Figure 25 shows that computer usage is highest in the 30 – 39 and 40 – 49 age ranges. These figures also show that computer usage is lowest in the over 60 age range. When examined by the education level attained by interviewees, the data reveals that over seventy percent (70%) of persons who have attained a secondary school education or higher have used a computer during the last 12 months. This is shown in Figure 26.

In regards to the usage of computers by sex, more females have used computers than males in the last 12 months. Figure 27 shows that sixty two (62%) of the respondents who said they used computers were female whereas twenty eight percent (28%) were male. Figure 28 and Figure 29 show that sixty eight percent (68%) of male respondents to the survey and sixty nine percent (69%) of female respondents to the survey indicated that they have used a computer in the past 12 months.

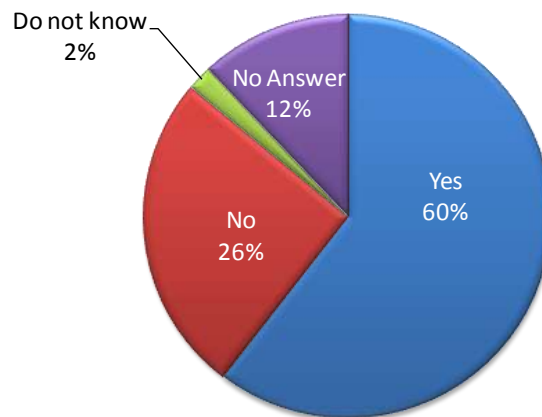


Figure 21: Computer usage by households in past 12 months

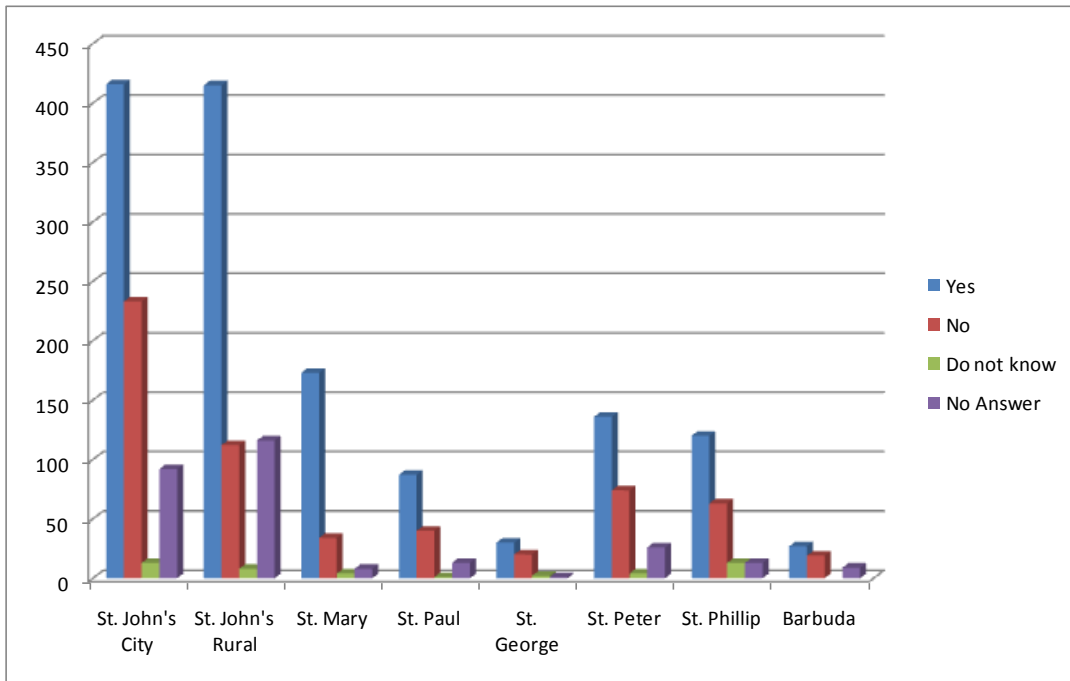


Figure 22: Computer usage by households in past 12 months by Parish

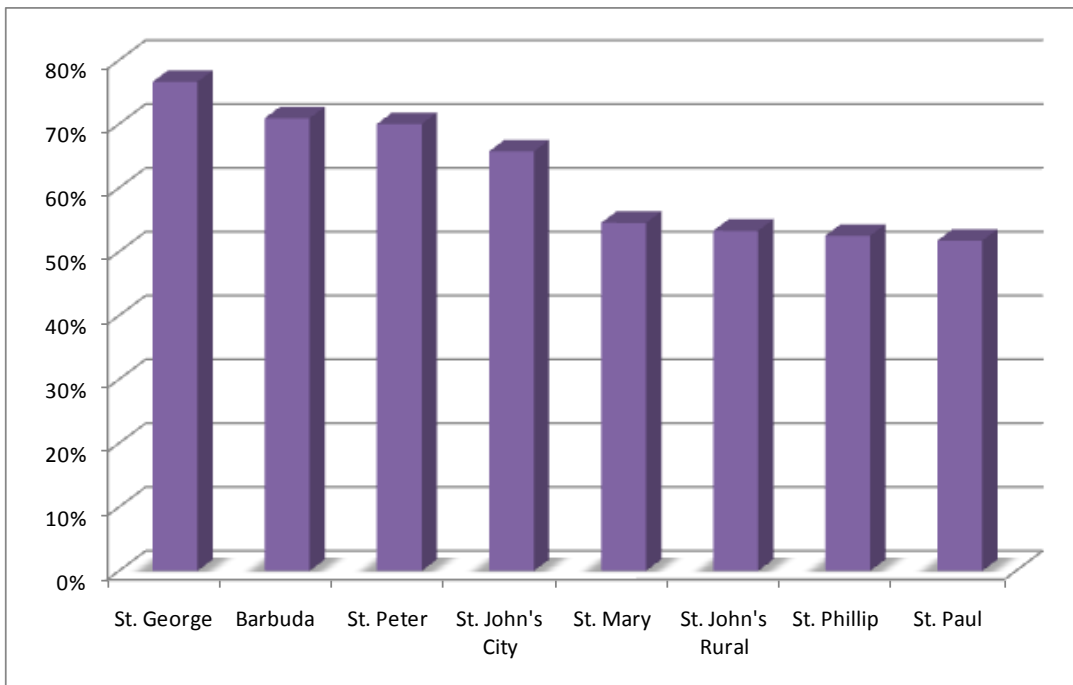


Figure 23: % of Respondents who used computers in last 12 months by Parish

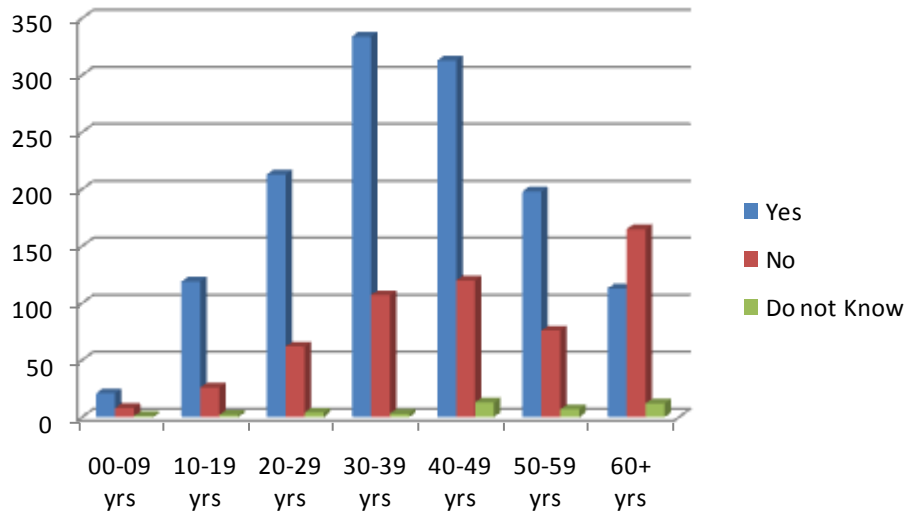


Figure 24: Computer Usage by Age of Respondent

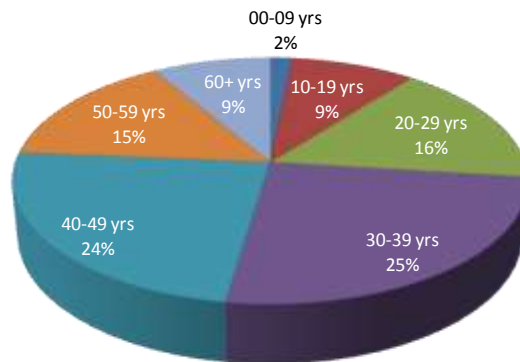


Figure 25: % of respondents who used computers over last 12 months by Age

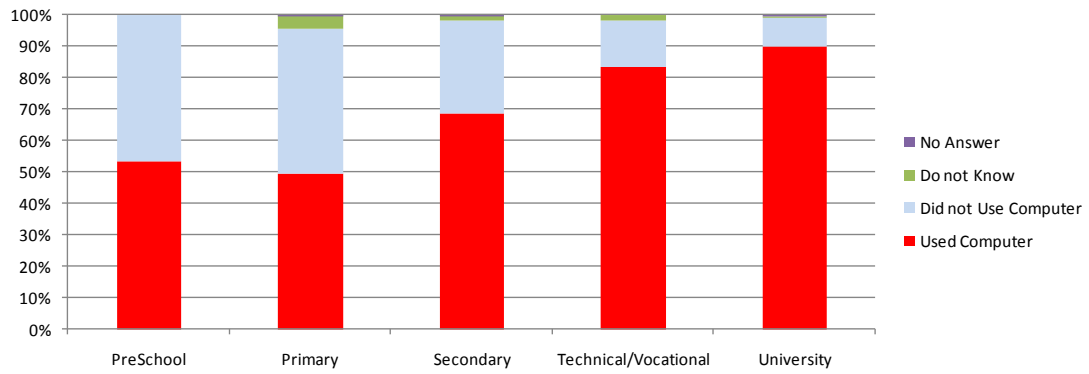


Figure 26: Computer Usage by Education Level attained by Respondent

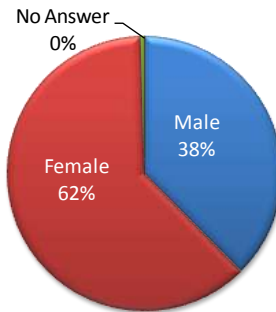


Figure 27: Computer Usage by Sex



Figure 28: Computer Usage by Male Respondents

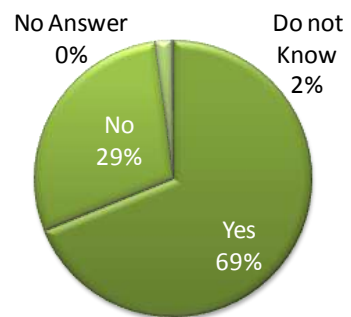


Figure 29: Computer Usage by Female Respondents

Fixed and Mobile Phone Usage

When asked if they had a fixed line telephone in their household, forty nine percent of householders indicated that they did. The areas St. John’s City and St. John’s Rural have the majority of fixed line telephones in the country (about fifty four percent – 54%). Barbuda and the parish of St. George each have about three percent (3%) of the fixed line phones in the country. When examined individually by parish, fewer households in the parishes of St. John’s City and St. John’s Rural have fixed line phones than those that do. In St. Phillip, more so than in any other part of the country, more household have fixed line telephones than do not. This is shown in Figure 32.

More households have mobile telephones than fixed line phones. Seventy eight percent of the households surveyed indicated that they have one or more mobile phones. Only twelve percent (12%) of the households indicated that they did not have access to a mobile unit. As with fixed units the majority of mobile telephones are in the St. John’s City and St. John’s Rural areas. Similarly, Barbuda and the parish of St. George each have about two percent (2%) of the mobile phones in the country. Figure 35 shows that almost three-quarter of the households in every parish have mobile phones. The greatest density of mobile phones is in the parish of St. George.

As shown in Figure 36 Cable and Wireless has the greatest share of the mobile telephone market; fifty six percent (56%). Digicel has twenty six percent (26%) and APUA PCS has fourteen percent (14%) of the mobile telephone market.

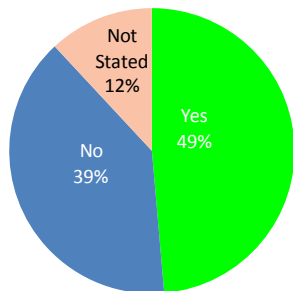


Figure 30: Proportion of Households with Fixed Line Telephones

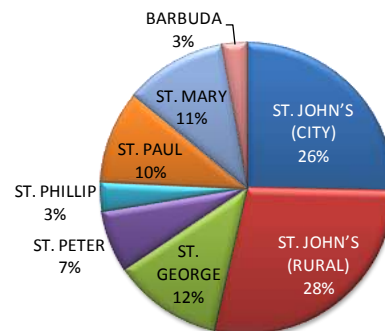


Figure 31: Distribution of Fixed Line Telephones by Parish

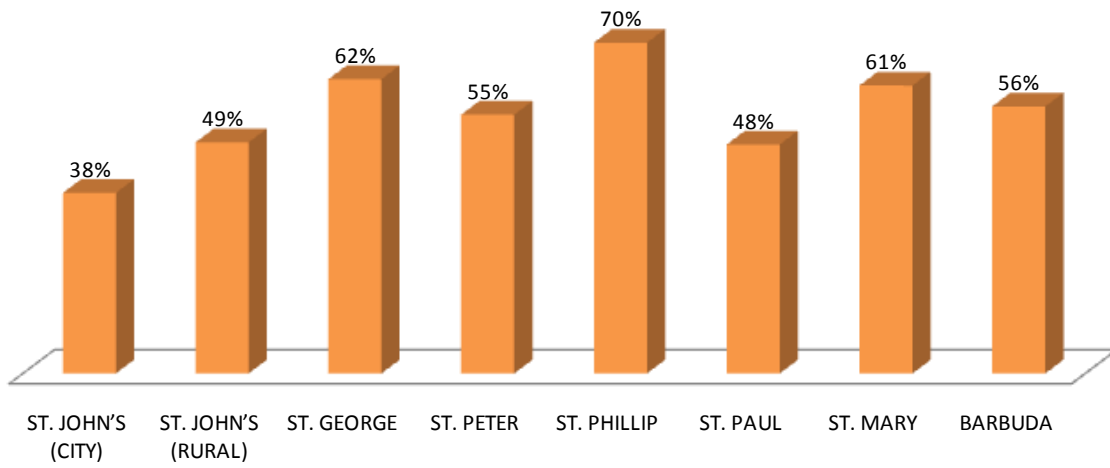


Figure 32: Proportion of Households with Fixed line phones by Parish

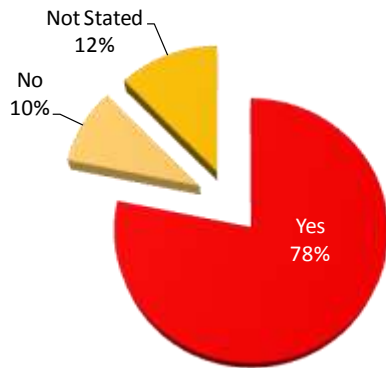


Figure 33: Proportion of Households with Mobile Phones

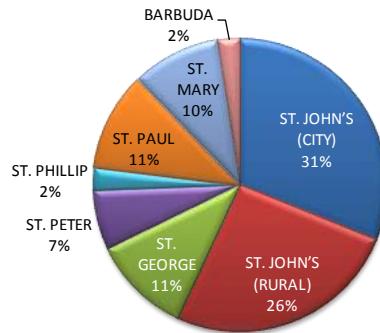


Figure 34: Distribution of Mobile Telephones by Parish

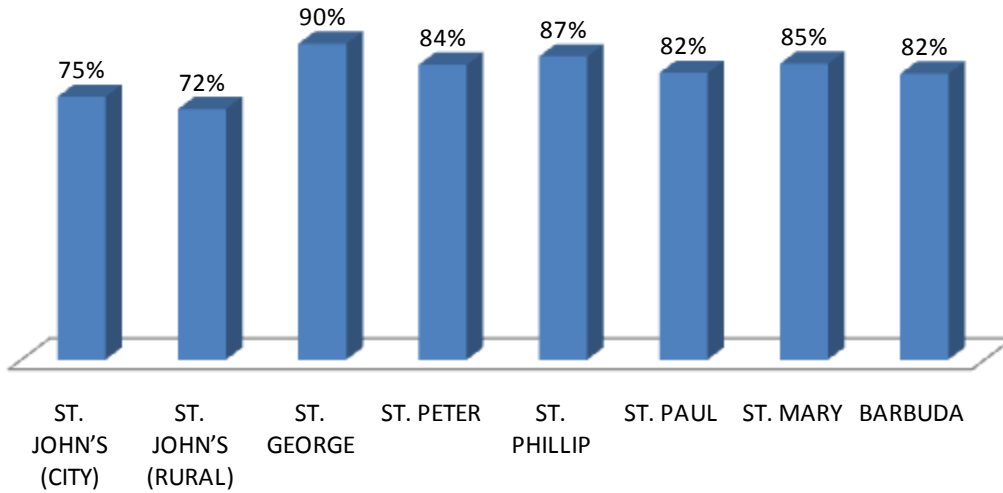


Figure 35: Proportion of Households with Mobile phones by Parish

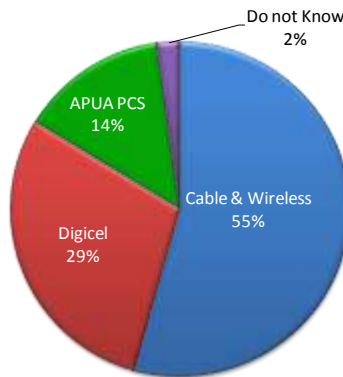


Figure 36: Household Usage of Mobile Phones by Provider

Internet Access

Of the two thousand three hundred and twenty two (2322) respondents to the survey only eight hundred and thirty (830) or thirty six percent (36%) indicated that they have Internet access at their household. St. George has the largest proportion of households with Internet access whilst Barbuda has the lowest.

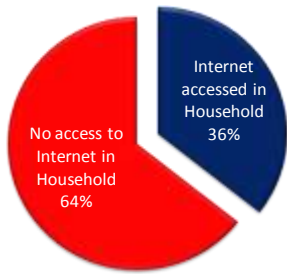


Figure 37: Internet Access at Home

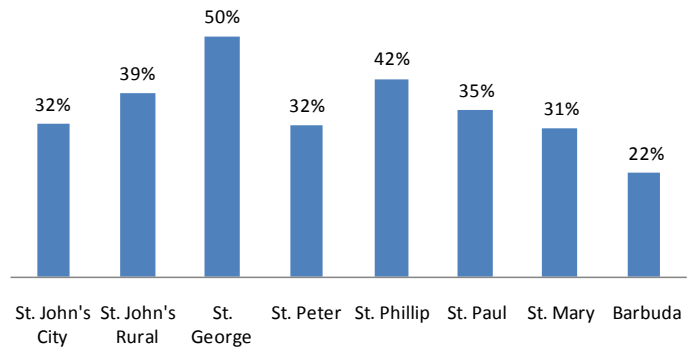


Figure 38: % of respondents with Internet at home by Parish

When asked why they did not have Internet access at their house thirty four percent (34%) of respondents indicated that it was too expensive whereas nineteen percent (19%) said that it was not necessary. Nine percent (9%) indicated that either they did not know how to access the Internet or that they did not know what the Internet was about.

Eighty one percent (81%) of persons with Internet access in their home indicated that they have high speed or wireless connection. The number of household getting connected to the Internet has been increasing every year. Thirty nine percent (39%) of the respondents who have Internet access indicated that they had gotten connected during the last 12 months. Only nine percent (9%) of those who have Internet access had gotten connected more than five years ago.

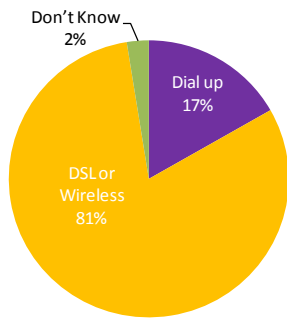


Figure 39: Type of Internet Access in Households

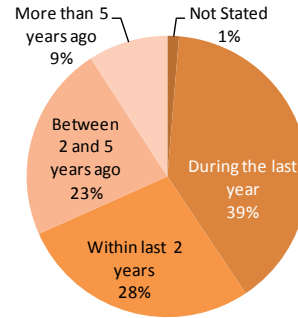


Figure 40: When Internet Access obtained in the household

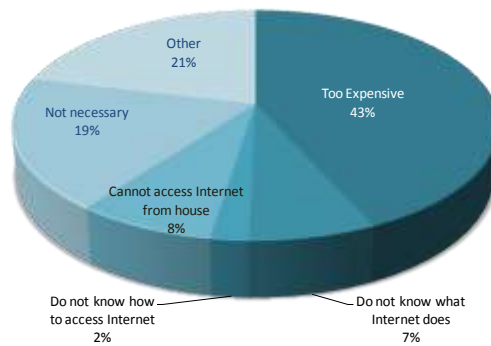


Figure 41: Reasons for Not Accessing the Internet

Internet Usage

Fifty three percent (53%) of household used the Internet over the last 12 months. Sixty eight percent (68%) of households that use the Internet are in St. George. This is the highest use of the Internet in the country. In Barbuda only forty four percent (44%) of households used the Internet. This is the lowest in the country.

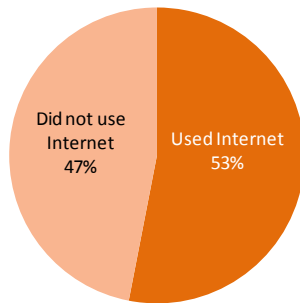


Figure 42: Internet usage over the last 12 months

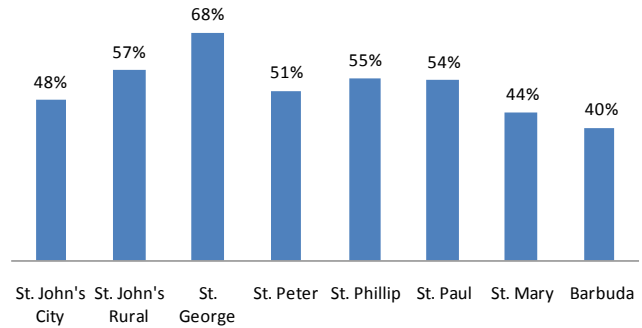


Figure 43: Proportion of householders who have used the Internet by Parish

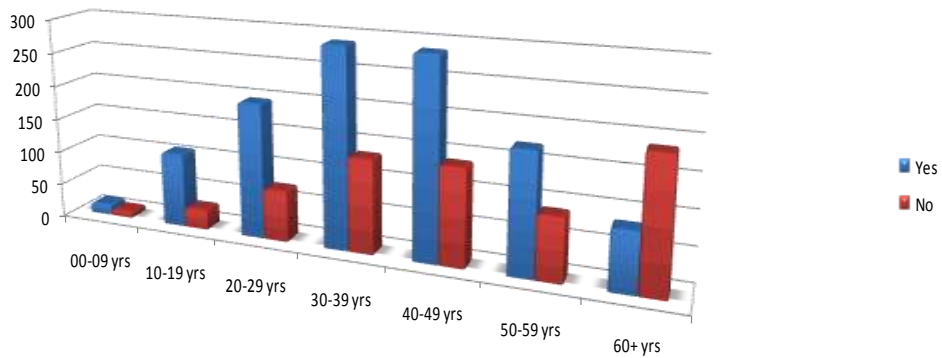


Figure 44: Internet use during the last 12 months by age of respondents

When examined by the age of the respondents Figure 44 shows that except for the persons in the over 60 age category, more respondents have used the Internet than have not in all other age ranges. As is the case with computer usage, more respondents who have attained a secondary or post secondary education have used the Internet in the last 12 months. This is shown in Figure 45.

Over fifty percent (50%) of those who accessed the Internet did so at home. Twenty percent (20%) did so at work. Only one percent (1%) has accessed the Internet at a Community Access Center over the past 12 months. Figure 46 shows this.

Most respondents use the Internet for sending communications (email, chatting etc.) and for web browsing. Relatively few respondents indicated that they use the Internet for Government services.

Figure 48 shows what most people buy on the Internet. Interestingly, more respondents indicated that they purchase air line tickets than any other product. With regard to the facilitation for online purchasing seventy percent (70%) of respondents indicated that it is easy or very easy to get a debit or credit card in Antigua and Barbuda. This is shown in Figure 49.

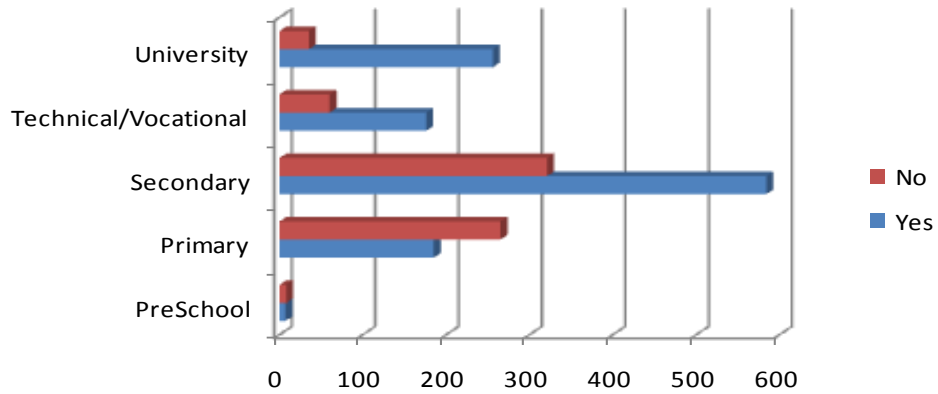


Figure 45: Internet Usage by Level of Education attained by Respondent

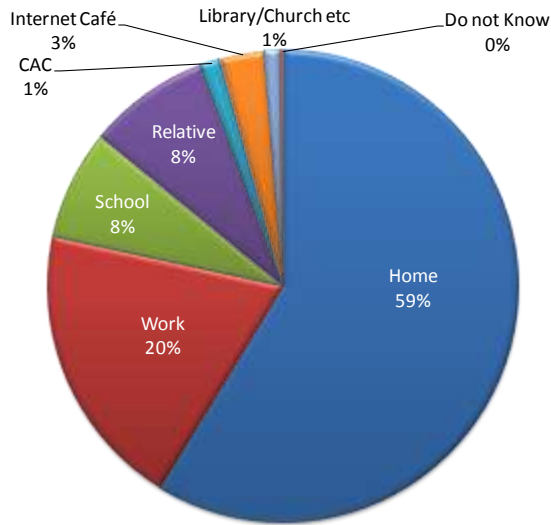


Figure 46: Where was the Internet Accessed most often

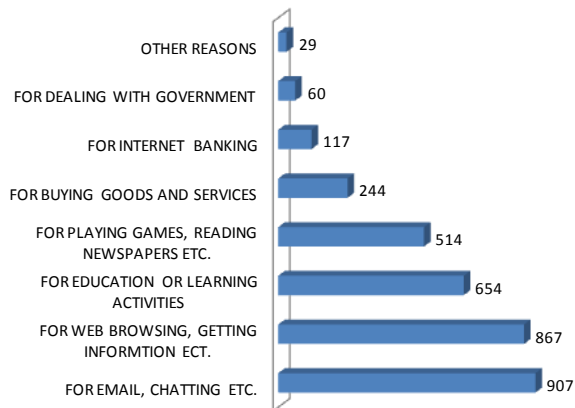


Figure 47: Reasons for using the Internet

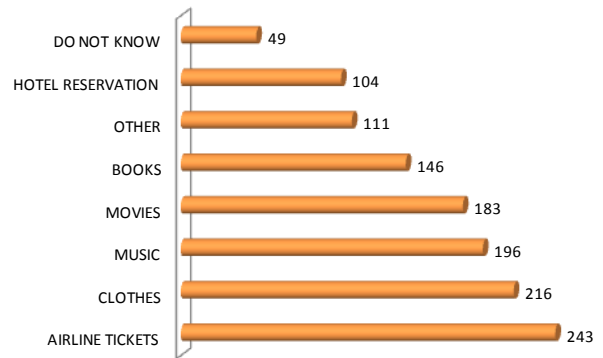


Figure 48: Purchases by Respondents who used the Internet in the last 12 months

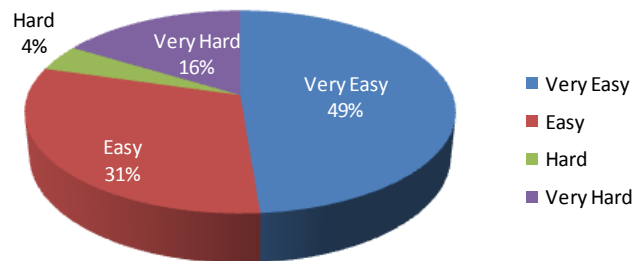


Figure 49: Responses to getting Credit or Debit Cards

Awareness of ICT initiatives

This section of the ICT Household survey sought to determine how aware respondents were of the various ICT initiatives that are on-going in the country. Over the past two years the Government has embarked on its Connect Antigua and Barbuda Initiative which seeks to bridge the digital divide in the country. At its foundation several Community Access Centers or CACs have been developed, each of which house several computers with high speed Internet access. The majority of survey respondents

(fifty seven percent – 57%) indicated that they were aware of the CAC initiative. When asked how they feel about the usefulness of the CAC initiative sixty percent (60%) agree or strongly agree with the program. Although forty percent (40%) of those surveyed did not give an answer, less than one percent (1%) of respondents disagreed with the initiative. These statistics are reflected in Figure 50 and Figure 51.

	Total
Yes	1333
No	511
No Answer	487

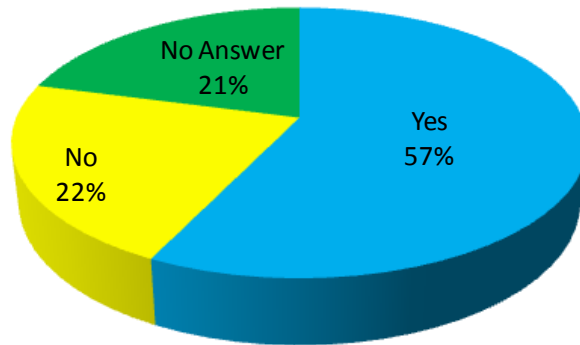


Figure 50: Awareness of CACs

Strongly Agree	832
Agree	552
Disagree	13
Strongly Disagree	3
No Answer	931

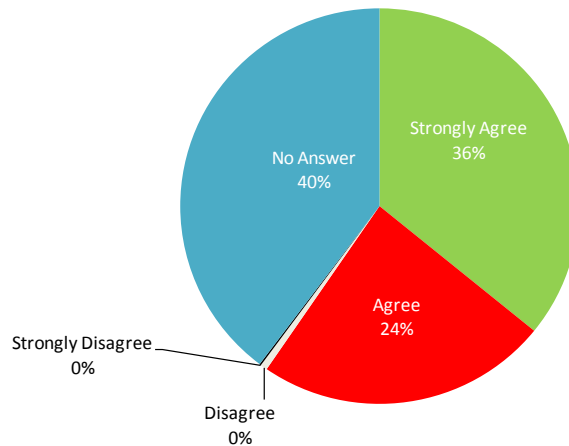


Figure 51: Usefulness of CACs

The Government, through its Information Technology Center, has embarked on a project to ensure that all ministries are online through its main portal at www.antigua.gov.ag. When asked if they are aware of this site the majority of respondent (forty one percent – 41%) said that they did not. Thirty eight percent (38%) of respondents indicated that they did. When those who were aware of the portal were asked about its usefulness twenty four percent (24%) either agreed or strongly agreed. The percentage of the respondents in this group who disagreed was negligible. Figure 52 and Figure 53 present these findings.

	Total
Yes	898
No	945
No Answer	488

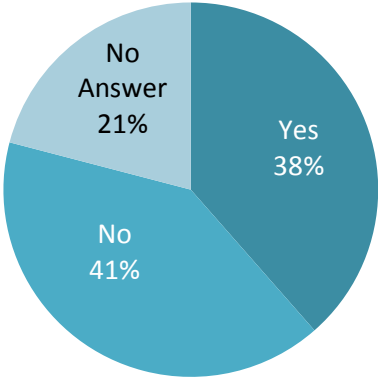


Figure 52: Awareness of Government Website

Strongly Agree	303
Agree	259
Disagree	30
Strongly Disagree	8
No Answer	1731

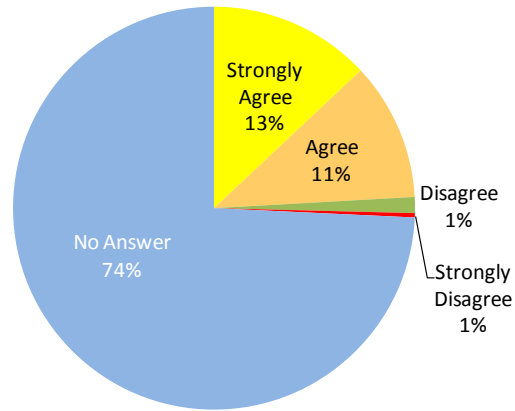


Figure 53: Usefulness of Government Website

Respondents were asked to choose from among eighteen options which government services that they would like to see online. The top three items that were chosen are Health Information, the Laws of Antigua and Barbuda and School and Educational events. The order of respondent choices is given in Figure 54.

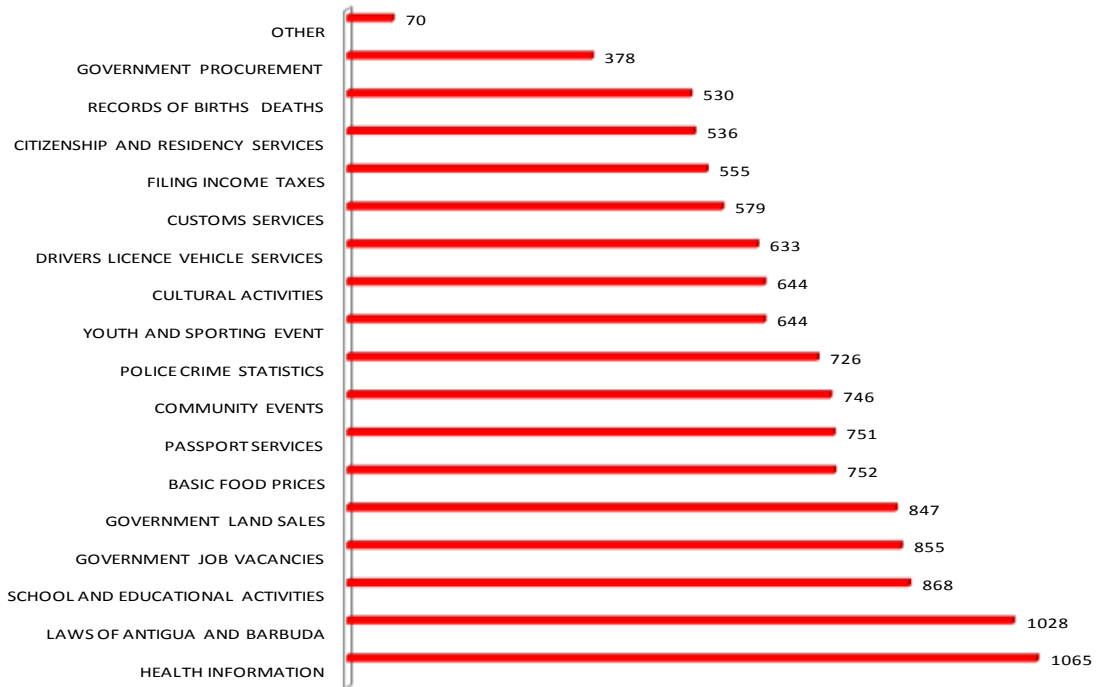


Figure 54: Government Services householders would like to see

Conclusion

The following conclusions can be drawn from the data collected from the survey:

- a. The ownership of both mobile and fixed line phones is high however cell phone ownership far outstrips that on fixed line telephone ownership in households across the country,
- b. Fewer households own a computer than those that do not. There is a direct relationship between income levels and computer ownership. The digital divide does exist in the country especially in the parishes of St. George, St. Phillip, St. Peter and St. John's Rural. Many householders who did not have a computer indicated that it was too expensive.
- c. More people use computers than those who own computers however the question about where these computers were used was not asked.
- d. Less than ten percent (10%) of persons over 60 years used a computer in the past year. This suggests an age dimension to the digital divide in Antigua and Barbuda.
- e. A minority of households in Antigua have access to the Internet. This still outstrips household access to the Internet in Barbuda which is only twenty two percent (22%). More persons accessed the Internet than those who indicated that they have access at home. The data shows that the Internet is also accessed at work and at school. Also the Internet is primarily accessed by persons with a secondary school education or greater. This suggests an academic achievement dimension to the digital divide as well.
- f. Many people seem to be aware of Government's initiative with regard to its Community Access Centres. Fewer are aware of the Government's website and other initiatives. This is also reflected by some of the choices that people wish to see especially in the light that some of these already exist on the Government's website. More work and promotion of the Government's website is needed in this regard.

In conclusion, the author notes that the statistics revealed in this report, though comprehensive is not fully exhaustive. It is suggested that since the survey database can be cross referenced down to the street level (in some cases) and that the data can be further massaged if and when more detailed reports are required.

APPENDIX

Appendix A

Detailed List of Enumeration Districts by Parish

ST. JOHN'S (CITY)

ENUMERATION DISTRICT	ED Number	NO. OF H/HLDS	SAMPLING INTERVAL
Buckleys Street (Harbour)	10100	77	7
Buckleys Street (Central)	10200	62	6
Buckleys Street (South)	10300	79	7
Federation Road (North)	10400	84	8
Cooks Hill Road	10500a	110	10
Cooks Hill Road	10500b	110	10
Grays Hill (West)	10700a	107	10
Grays Hill (West)	10700b	107	10
Green Bay Extension	10800	77	7
George Street (South)	10900	67	6
Green Bay School	11100a	106	10
Green Bay School	11100b	106	10
Green Bay Central	11200	36	3
Wan Pond Road	11300	65	6
Matthews Street	11500a	134	12
Matthews Street	11500b	134	12
Kentish North	11800a	87	8
Kentish North	11800b	87	8
Station Road (North)	11900	81	7
Tindale Road (North)	12200a	100	9
Tindale Road (North)	12200b	100	9
Grays Hill Reservoir	12500a	109	10
Grays Hill Reservoir	12500b	109	10
Grays Hill (East)	12600a	100	9
Grays Hill (East)	12600b	100	9
Baxter Street	13100	68	6
Golden Grove School	13300	83	8
Golden Grove	13400a	101	9
Golden Grove	13400b	101	9
Edward Street	13500a	100	9
Edward Street	13500b	100	9
Ottos (West)	14100	79	7
Martins Road (East)	14200	58	5
Whenner Road (North)	14300	96	9
Brams Hamlet Road (West)	14500a	105	10
Brams Hamlet Road (West)	14500b	105	10
A.B.S. (Old)	14600a	119	11
A.B.S. (Old)	14600b	119	11

Holberton Hospital	14800	91	8
Nelson Street (West)	15000	77	7
Tanner Street	15200	57	5
Sutherlands (Central)	15600	87	8
St. Johnsons (East)	15800a	119	11
St. Johnsons (East)	15800b	119	11
Skeritts Pasture (South)	15900	71	6
Simon Bolivar Park	16100a	128	12
Simon Bolivar Park	16100b	128	12
Clare Hall (West)	16400	79	7
Upper Gambles	16500a	126	11
Upper Gambles	16500b	126	11
Cortsland	16600	82	7
Deneary	16700	61	6
Census Office (North St.)	16800	81	7
Point Water Front (East)	17000	69	6
Wapping Lane (South)	17300	66	6
Wapping Land (Central)	17400	73	7
Pelle Street East)	17500	64	6
Dickenson Bay St. (West)	17600	65	6
Villa School	17700	86	8
Pigott Street	17900	68	6
Gambles	18200	87	8
Cemetery	18300	93	8
Friars Hill (West)	18500	97	9
Upper Fort Road (North)	18600a	102	9
Upper Fort Road (North)	18600b	102	9
Upper Fort Road (Central)	18700a	105	10
Upper Fort Road (Central)	18700b	105	10
Villa (Central)	19100	78	7
Blackburn Park	19300	82	7
Fort James	19400	74	7
Barrymore	19500a	102	9
Barrymore	19500b	102	9

ST. JOHN'S (RURAL)

Hodges Bay (Benaire)	30100a	135	12
Hodges Bay (Benaire)	30100b	135	12
Hodges Bay (Royals)	30200a	119	11
Hodges Bay (Royals)	30200b	119	11
Cedar Grove (South)	30500a	126	11
Cedar Grove (South)	30500b	126	11
Crosbies (Mill Tower)	30800	89	8
Crosbies (W.I.O.C)	30900	99	9

Marble Hill	31000	97	9
Trade Winds	31100	68	6
McKinnons	31300a	126	11
McKinnons	31300b	126	11
McKinnons (Salt Pond)	31401a	122	11
McKinnons (Salt Pond)	31401b	122	11
Adelin Clinic	31500a	120	11
Adelin Clinic	31500b	120	11
Prison Farm	31600a	116	11
Prison Farm	31600b	116	11
Pigotts Ville	31800a	105	10
Pigotts Ville	31800b	105	10
Upper Clare Hall	31900a	125	11
Upper Clare Hall	31900b	125	11
Clare Hall School	32200a	103	9
Clare Hall School	32200b	103	9
Skyline	32301a	116	11
Skyline	32301b	116	11
Skeritts (East)	32400	112	10
Scotts Hill	32600a	111	10
Scotts Hill	32600b	111	10
Potters (East)	33000	79	7
Potters (Cemetery)	33200a	103	9
Potters (Cemetery)	33200b	103	9
Tomlinsons	33301a	116	11
Tomlinsons	33301b	116	11
Tomlinsons	33302a	144	13
Tomlinsons	33302b	144	13
Belmont	33402a	102	9
Belmont	33402b	102	9
St. Claire	33501	52	5
Buckleys (East)	33701	66	6
Buckleys (East)	33702	47	4
Clarkes Hill	33800	90	8
All Saints (Police Station)	34000	73	7
Bendals	34100	71	6
Emmanuel	34201a	101	9
Emmanuel	34201b	101	9
Emmanuel	34202	64	6
Bendals Road	34502a	100	9
Bendals Road	34502b	100	9
Belle View Heights	34600a	132	12
Belle View Heights	34600b	132	12
Moravian Conference Hall	34700a	132	12
Moravian Conference Hall	34700b	132	12
Bramms Hamlet (North)	34800a	104	9

Bramms Hamlet (North)	34800b	104	9
Bramms Hamlet (South)	34900a	124	11
Bramms Hamlet (South)	34900b	124	11
Montclear	35301a	148	13
Montclear	35301b	148	13
Union Road (North)	35800a	119	11
Union Road (North)	35800b	119	11
Five Island	36000	116	11

ST. GEORGE

New Winthropes (North)	40100	110	10
New Winthropes (South)	40200	152	14
New Winthropes (East)	40300	106	10
Barnes Hill School	40400	121	11
Barnes Hill (East)	40500	115	10
Pigott School	40600	115	10
Pigotts Hill	40700	101	9
Pigotts (St. Mary's)	40800	88	8
Pigotts (Moravian)	41000	87	8
Pigotts (Central)	41100	70	6
Sea View Farm (Zion)	41200	101	9
Sea View Farm (Central)	41300	83	8
Renfrews	41400	102	9
Upper Lightfoots	41502	120	11
Upper Lightfoots	41601	99	9
Sugar Factory	41602	174	16
Carlisle	41700	106	10
Fitches Creek	41800	112	10
Coolidge	41900	108	10
Airport	42000	28	3

ST. PETER

All Saints (Jones)	50100	145	13
All Saints (North)	50201	92	8
All Saints (North)	50202	56	5
All Saints (Playground)	50301	99	9
All Saints (Playground)	50302	41	4
All Saints (Anglican Church)	50400	103	9
Freemansville (South)	50500	103	9
Freemansville (North)	50600	134	12
Parham (Byans Wharf)	50900	89	8

Pares (East)	51100	110	10
Pares (West)	51200	62	6
Vernons	51300	106	10
Diamonds	51400	13	1

ST. PHILLIP

Willikies (West)	60200	80	7
Willikies (East)	60500	27	2
Freetown (North)	60600	94	9
Glanvilles (Central)	60900	57	5
Seatons (Central)	61100	101	9
Newfield	61300	109	10
St. Phillips	61400	52	4
Mill Reef/Half Moon Bay	61700	12	1
Long Bay	61800	17	1

ST. PAUL

All Saints (East)	70100	85	8
All Saints (South)	70200	81	7
Swetes (North West)	70300	125	11
Swetes (North)	70400	105	10
Swetes (Central)	70500	102	9
Swetes (South East)	70600	101	9
Swetes (East)	70700	107	10
Liberta (West)	70901	111	10
Liberta (West)	70902	99	9
Liberta (North Central)	71000	112	10
Liberta (South West)	71200	98	9
Green Hill	71300	97	9
Bethesda (East)	71400	105	10
Falmouth	71600	101	9
English Harbour (Town)	71800	87	8
English Harbour (Middle Ground)	72000	43	4
Marsh Village	72100	94	9
Dow Hill	72200	78	7
Christian Hill	72300	80	7
Table Hill Gardens	72400	54	5
Tyrells	72500	117	11
Pattersons	72600	88	8
Dieppe Bay	72700	33	3

ST. MARY

Bolans (Jolly Beach)	80100	112	10
Bolans (Tottenham)	80200	55	5
Bolans Hill	80300	85	8
Bolans (Jolly Hill)	80401	64	6
Bolans (Central West)	80500	63	6
Bolans (Central East)	80600	73	7
Bolans Clinic	80700	82	7
Old Road (North)	80800	70	6
Old Road (Claremont)	80900	52	5
Old Road (Central)	81000	64	6
Old Road (West)	81201	56	5
Urlings (St. Mary's Church)	81300	60	5
Johnsons Point	81700	70	6
Crabb Hill	81800	49	4
Jennings (Central)	81900	105	10
Ebenezer (Hall)	82300	60	5
Ebenezer (Green Hill)	82400	90	8
John Hughes (BreakNeck)	82500	60	5
Boggy Peak	82700	62	6

BARBUDA

Codrington (North)	90100	154	14
Codrington (Central)	90200	92	8
Codrington (South)	90300	82	7
Barbuda (North)	90400	78	7
Barbuda (South)	90500	50	5

ANTIGUA AND BARBUDA ICT HOUSEHOLD SURVEY

Appendix B

ICT Survey Form

Enumeration District	_____	Household Number	_____
-------------------------	-------	------------------	-------

SECTION A - Characteristics of Individual completing this survey

1) First Name																	
2) Surname																	
3) Address (Road/Street/Village)																	
4) Parish/Region	<table style="width: 100%; border: none;"> <tr> <td style="width: 45%;">St. John's</td> <td style="width: 5%; text-align: center;"><input type="checkbox"/></td> <td style="width: 45%;">St. George's</td> <td style="width: 5%; text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>St. Peter's</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>St. Mary's</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>St. Phillip's</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>St. Paul</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Barbuda</td> <td style="text-align: center;"><input type="checkbox"/></td> <td></td> <td></td> </tr> </table>	St. John's	<input type="checkbox"/>	St. George's	<input type="checkbox"/>	St. Peter's	<input type="checkbox"/>	St. Mary's	<input type="checkbox"/>	St. Phillip's	<input type="checkbox"/>	St. Paul	<input type="checkbox"/>	Barbuda	<input type="checkbox"/>		
St. John's	<input type="checkbox"/>	St. George's	<input type="checkbox"/>														
St. Peter's	<input type="checkbox"/>	St. Mary's	<input type="checkbox"/>														
St. Phillip's	<input type="checkbox"/>	St. Paul	<input type="checkbox"/>														
Barbuda	<input type="checkbox"/>																
5) Home Telephone																	
6) Mobile Telephone																	
7) Email																	
8) Relationship to others in the household	<table style="width: 100%; border: none;"> <tr> <td style="width: 45%;">Parent</td> <td style="width: 5%; text-align: center;"><input type="checkbox"/></td> <td style="width: 45%;">Child</td> <td style="width: 5%; text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Grandparent</td> <td style="text-align: center;"><input type="checkbox"/></td> <td>Relative</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Other</td> <td style="text-align: center;"><input type="checkbox"/></td> <td colspan="2" style="text-align: center;"><i>(Specify)</i></td> </tr> </table> <div style="text-align: right; margin-top: 5px;">_____</div>	Parent	<input type="checkbox"/>	Child	<input type="checkbox"/>	Grandparent	<input type="checkbox"/>	Relative	<input type="checkbox"/>	Other	<input type="checkbox"/>	<i>(Specify)</i>					
Parent	<input type="checkbox"/>	Child	<input type="checkbox"/>														
Grandparent	<input type="checkbox"/>	Relative	<input type="checkbox"/>														
Other	<input type="checkbox"/>	<i>(Specify)</i>															

ANTIGUA AND BARBUDA ICT HOUSEHOLD SURVEY

<p>9) Employment status</p> <p>Instruction <u>Go to Section B – Question 1 if Unemployed</u></p>	<p>Employed <input type="checkbox"/> Student <input type="checkbox"/></p> <p>Unemployed <input type="checkbox"/> Retired <input type="checkbox"/></p>
<p>10) Employer</p>	<p>Government <input type="checkbox"/> Private sector <input type="checkbox"/></p> <p>Self <input type="checkbox"/> Other <input type="checkbox"/></p>

ANTIGUA AND BARBUDA ICT HOUSEHOLD SURVEY

SECTION B - Household Characteristics

Indicate how many people currently live in the household

1) How many people are in your household?

Person	Age	Sex		Highest Education Level Achieved				
		M	F	Pre School	Primary School	Secondary School	Technical / Vocational	University / Tertiary
1.Respondent		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ANTIGUA AND BARBUDA ICT HOUSEHOLD SURVEY

2) What is the average monthly income of your household?	1) Below \$2,000 <input type="checkbox"/> 2) Between \$2,000 and \$5,000 <input type="checkbox"/> 3) Between \$5,001 and \$10,000 <input type="checkbox"/> 4) Over \$10,000 <input type="checkbox"/> 5) Do not know <input type="checkbox"/>
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SECTION C – Radio and TV

1) Do you have a TV at home?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2) Do you have a Radio at home?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
3) Do you have Cable TV in the household?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

SECTION D – Telephones

1) Does your household have a fixed line telephone at home?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2) Do you or anyone in your household have a mobile telephone? <div style="background-color: #4a86e8; color: white; padding: 10px; margin: 10px 0;"> <u>Instruction</u> Go to Section E - Question 1 if no one has a mobile phone </div>	Yes <input type="checkbox"/>	No <input type="checkbox"/>

ANTIGUA AND BARBUDA ICT HOUSEHOLD SURVEY

3) Indicate all of the Mobile Service Provider(s) used by you or any member of your household?	a. Cable & Wireless <input type="checkbox"/> b. Digicel <input type="checkbox"/> c. APUA - PCS <input type="checkbox"/> d. Do not know <input type="checkbox"/>
--	--

SECTION E - Computers

1) Have you or anyone in your household used a computer in the last 12 months?	Yes <input type="checkbox"/> No <input type="checkbox"/> Do not know <input type="checkbox"/>
2) Have you or anyone in your household had any formal computer training? <i>(at school or at work)</i>	Yes <input type="checkbox"/> No <input type="checkbox"/> Do not know <input type="checkbox"/>
3) Do you or anyone in your household own a computer? <div style="background-color: #4a7ebb; color: white; padding: 5px; margin-top: 10px;"> <p style="text-align: center; margin: 0;"><u>Instruction</u></p> <p style="text-align: center; margin: 0;"><i>If the answer to this question is YES then go to Question 5</i></p> </div>	Yes <input type="checkbox"/> No <input type="checkbox"/>

ANTIGUA AND BARBUDA ICT HOUSEHOLD SURVEY

<p>4) If nobody in your household owns a computer, what is the main reason?</p> <div style="background-color: #4a86e8; color: white; padding: 5px; text-align: center;"> <p><u>Instruction</u></p> <p><i>Go to Section F – Question 6 after answering this question</i></p> </div>	<p>a. It is too expensive <input type="checkbox"/></p> <p>b. We do not need a computer <input type="checkbox"/></p> <p>c. We do not know how to use a computer <input type="checkbox"/></p> <p>d. We have other priorities <input type="checkbox"/></p>
<p>5) How many computers do your household own?</p>	<p>a. One <input type="checkbox"/></p> <p>b. Two <input type="checkbox"/></p> <p>c. More than 2 <input type="checkbox"/></p>
<p>6) What kinds of computers do your household own?</p>	<p>a. Desktop <input type="checkbox"/></p> <p>b. Laptop <input type="checkbox"/></p> <p>c. Handheld <input type="checkbox"/> <i>PDA, Blackberry etc</i></p>
<p>7) How long ago was your household's last computer purchased or acquired</p>	<p>a. During the last year <input type="checkbox"/></p> <p>b. Within the last 2 years <input type="checkbox"/></p> <p>c. Between 2 and 5 years ago <input type="checkbox"/></p> <p>d. More than 5 years ago <input type="checkbox"/></p>

ANTIGUA AND BARBUDA ICT HOUSEHOLD SURVEY

SECTION F - Internet

INTERNET ACCESS AT HOME

1) Do you have access to the Internet <u>in your household</u> ?	Yes <input type="checkbox"/> No <input type="checkbox"/>
2) If you DO NOT have access to the Internet in your household, what is the main reason? <div style="background-color: #4a86e8; color: white; padding: 10px; margin-top: 10px; text-align: center;"> <p>Instruction</p> <p>Go to <u>Question 6</u> in this Section if there is <u>NO</u> Internet access at this house</p> </div>	a. Too expensive <input type="checkbox"/> b. Do not know what the Internet does <input type="checkbox"/> c. Do not know how to get access to the Internet <input type="checkbox"/> d. Cannot access the Internet in your area <input type="checkbox"/> e. It is not necessary <input type="checkbox"/> f. Other (<i>explain</i>): <hr style="width: 80%; margin-left: 0;"/> <input type="checkbox"/>
3) Who is your Internet Service Provider?	a. Cable & Wireless <input type="checkbox"/> b. APUA <input type="checkbox"/> c. ACT <input type="checkbox"/> d. Image Locker <input type="checkbox"/> e. Other (<i>specify</i>): <hr style="width: 80%; margin-left: 0;"/> <input type="checkbox"/>

ANTIGUA AND BARBUDA ICT HOUSEHOLD SURVEY

4) What type of Internet access do you have in your household?	a. Low speed <i>Dial up</i> <input type="checkbox"/>
	b. High speed <i>DSL or Wireless</i> <input type="checkbox"/>
	c. Do not know <input type="checkbox"/>
5) When did you get Internet access in your household?	a. During the last year <input type="checkbox"/>
	b. Within the last 2 years <input type="checkbox"/>
	c. Between 2 and 5 years ago <input type="checkbox"/>
	d. More than 5 years ago <input type="checkbox"/>

INTERNET USE DURING THE LAST 12 MONTHS

6) Have you or any member of your household used the Internet in the last 12 months?	Yes <input type="checkbox"/> No <input type="checkbox"/> Do not know <input type="checkbox"/>
<div style="background-color: #4a7ebb; color: white; padding: 10px; border: 1px solid black;"> <p style="margin: 0;"><u>Instruction</u></p> <p style="margin: 0; font-size: 0.9em;">Go to <u>Section G – Question 1</u> if the Internet has <u>NOT</u> used in last 12 months</p> </div>	
7) How often do you or members of your household use the Internet?	a. Every day <input type="checkbox"/>
	b. At least once a week but not every day <input type="checkbox"/>
	c. At least once a month but not every week <input type="checkbox"/>
	d. Less than once a month <input type="checkbox"/>

ANTIGUA AND BARBUDA ICT HOUSEHOLD SURVEY

8) Where do you use or members of your household the Internet <u>most often?</u>	a. At Home <input type="checkbox"/>
	b. At Work <input type="checkbox"/>
	c. At School <input type="checkbox"/>
	d. At a Relative or Friend <input type="checkbox"/>
	e. At a Community Access Centre <input type="checkbox"/>
	f. At an Internet café <input type="checkbox"/>
	g. At another place (Library, Church etc.) <input type="checkbox"/>
	h. Do not know <input type="checkbox"/>

ANTIGUA AND BARBUDA ICT HOUSEHOLD SURVEY

<p>9) What are your main reasons for you or members of your household using the Internet?</p>	<p>a. For communicating <input type="checkbox"/> ○ <i>sending or receiving email, making telephone calls, chatting etc</i></p> <p>b. For getting information <input type="checkbox"/> ○ <i>General web browsing, job searching etc</i></p> <p>c. For buying goods or services <input type="checkbox"/></p> <p>d. For education or learning activities <input type="checkbox"/></p> <p>e. For Internet banking <input type="checkbox"/></p> <p>f. For dealing with government <input type="checkbox"/></p> <p>g. For leisure activities <input type="checkbox"/> ○ <i>playing games, downloading pictures, music or movies, reading newspapers and books, listening to radio stations, watching TV, etc</i></p> <p>h. For another reason. Explain: <input type="checkbox"/></p> <hr style="width: 100%;"/>
<p>10) Have you or any member of your household purchased anything over the Internet in the last 12 ..</p> <div style="background-color: #4a7ebb; color: white; padding: 10px; margin-top: 10px; text-align: center;"> <p><u>Instruction</u></p> <p>Go to <u>Section G – Question 1</u> if</p> </div>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/> Do not know <input type="checkbox"/></p>

ANTIGUA AND BARBUDA ICT HOUSEHOLD SURVEY

11) What did you or members buy over the Internet?	a. Books	<input type="checkbox"/>
	b. Music	<input type="checkbox"/>
	c. Movies	<input type="checkbox"/>
	d. Clothes	<input type="checkbox"/>
	e. Hotel Reservation	<input type="checkbox"/>
	f. Airline Ticket	<input type="checkbox"/>
	g. Other	<input type="checkbox"/>
	h. Do not know	<input type="checkbox"/>
12) Was it easy for you or a member of your household to get a <u>credit or debit card</u> ? <i>For example: Visa or Master Card</i>	a. Very easy	<input type="checkbox"/>
	b. Easy	<input type="checkbox"/>
	c. Hard	<input type="checkbox"/>
	d. Very hard	<input type="checkbox"/>

ANTIGUA AND BARBUDA ICT HOUSEHOLD SURVEY

Section G – Awareness

<p>1) Are you or any member of your household aware of the following computer and Internet initiatives?</p> <div style="background-color: #4F81BD; color: white; padding: 10px; margin-top: 10px; text-align: center;"> <p><u>Instruction</u></p> <p><i>Go to <u>Question 5</u> if answer to question</i></p> </div>	<p>a. Community Access Centres Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>b. Government Website Yes <input type="checkbox"/> No <input type="checkbox"/></p>
<p>2) Have you or any member of your household ever used the government website?</p> <div style="background-color: #4F81BD; color: white; padding: 10px; margin-top: 10px; text-align: center;"> <p><u>Instruction</u></p> </div>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/> Do not know <input type="checkbox"/></p>
<p>3) Do you agree that the government website is useful?</p>	<p>a. Strongly Agree <input type="checkbox"/></p> <p>b. Agree <input type="checkbox"/></p> <p>c. Disagree <input type="checkbox"/></p> <p>d. Strongly Disagree <input type="checkbox"/></p>

ANTIGUA AND BARBUDA ICT HOUSEHOLD SURVEY

<p>4) Do you agree with the initiative to develop Computer Access Centres?</p>	<p>a. Strongly Agree <input type="checkbox"/></p>
	<p>b. Agree <input type="checkbox"/></p>
	<p>c. Disagree <input type="checkbox"/></p>
	<p>d. Strongly Disagree <input type="checkbox"/></p>
<p>5) If given a choice, which government services would you or members of your household most like to see on the Government website?</p>	<p>a. Passports services <input type="checkbox"/></p>
	<p>b. Citizenship and Residency services <input type="checkbox"/></p>
	<p>c. Driver's licence and Vehicle registration <input type="checkbox"/></p>
	<p>d. Records of Births, Deaths and Marriages <input type="checkbox"/></p>
	<p>e. Community Events and Community Services <input type="checkbox"/></p>
	<p>f. Laws of Antigua & Barbuda <input type="checkbox"/></p>
	<p>g. Government Land Sales <input type="checkbox"/></p>
	<p>h. Filing Income Taxes <input type="checkbox"/></p>
	<p>i. Customs services (<i>import and export forms, payments etc.</i>) <input type="checkbox"/></p>
	<p>j. Basic Food Prices <input type="checkbox"/></p>
	<p>k. Government procurement <input type="checkbox"/></p>
	<p>l. Police/Crime Statistics <input type="checkbox"/></p>

ANTIGUA AND BARBUDA ICT HOUSEHOLD SURVEY

	m. Youth and Sporting Events	<input type="checkbox"/>
	n. School and Educational Events	<input type="checkbox"/>
	o. Health Information	<input type="checkbox"/>
	p. Government Job vacancies	<input type="checkbox"/>
	q. Cultural Activities and Events	<input type="checkbox"/>
	r. Other (Explain)	<input type="checkbox"/>
	<hr/>	

The enumerator must sign and date the survey form

Interviewer: _____ Date: ___ / ___ / _____

PRINT NAME

Signature: _____

Appendix C

Weighted Scoring Model of Income Levels of Households

The income weight is computed as:

- 1 * number of households reporting income levels below \$2,000, plus
 - 2 * number of households reporting income levels between \$2,001 and \$5,000, plus
 - 3 * number of households reporting income levels between \$5,001 and \$10,000, plus
 - 4* number of households reporting income levels over \$10,000
- Divided by
- Total number of household that reported income levels in the above 4 categories.

The resulting data is sorted and categorized using the following colour codes:

	HIGH INCOME
	UPPER MEDIUM INCOME
	LOWER MEDIUM INCOME
	UPPER LOW INCOME
	LOW INCOME

Weighted Scoring Model Results

PARISH NAME	ENUMERATION DISTRICT	INCOME WEIGHT
ST. GEORGE	Fitches Creek	3.29
ST. JOHN'S (RURAL)	Marble Hill	3.22
ST. GEORGE	Coolidge	3.18
ST. JOHN'S (RURAL)	Crosbies (Mill Tower)	3.00
ST. JOHN'S (RURAL)	Emmanuel	3.00
ST. JOHN'S (RURAL)	Trade Winds	3.00
ST. JOHN'S (RURAL)	Crosbies (W.I.O.C)	2.88
ST. JOHN'S (RURAL)	McKinnons	2.85
ST. PHILLIP	Glanvilles (Central)	2.75
ST. PETER	Vernons	2.67
ST. JOHN'S (RURAL)	Hodges Bay (Benaire)	2.60
ST. GEORGE	Sugar Factory	2.55
ST. JOHN'S (RURAL)	Bendals	2.50
ST. JOHN'S (RURAL)	Buckleys (East)	2.50
ST. JOHN'S (RURAL)	Montclear	2.50
ST. PAUL	Dieppe Bay	2.50
ST. GEORGE	Pigotts (Central)	2.45

PARISH NAME	ENUMERATION DISTRICT	INCOME WEIGHT
ST. GEORGE	Renfrews	2.44
ST. JOHN'S (RURAL)	Clarkes Hill	2.40
ST. JOHN'S (CITY)	Upper Gambles	2.38
ST. PHILLIP	St. Phillips	2.36
ST. JOHN'S (CITY)	Gambles	2.33
ST. JOHN'S (RURAL)	Hodges Bay (Royals)	2.33
ST. JOHN'S (CITY)	Cortsland	2.29
ST. PETER	Parham (Byans Wharf)	2.29
ST. PHILLIP	Freetown (North)	2.29
ST. GEORGE	Upper Lightfoots	2.27
ST. JOHN'S (CITY)	Federation Road (North)	2.27
ST. MARY	Boggy Peak	2.27
ST. PAUL	Swetes (Central)	2.27
ST. PAUL	Swetes (North West)	2.27
ST. JOHN'S (RURAL)	Clare Hall School	2.21
ST. JOHN'S (CITY)	Upper Fort Road (North)	2.20
ST. PAUL	Bethesda (East)	2.20
ST. PAUL	All Saints (South)	2.18
ST. PAUL	Liberta (West)	2.18
ST. PAUL	Swetes (South East)	2.18
ST. JOHN'S (CITY)	Fort James	2.17
ST. JOHN'S (RURAL)	Skyline	2.17
ST. JOHN'S (RURAL)	Upper Clare Hall	2.17
ST. JOHN'S (CITY)	Cooks Hill Road	2.16
ST. JOHN'S (CITY)	Deneary	2.14
ST. PAUL	Liberta (South West)	2.14
ST. JOHN'S (RURAL)	Cedar Grove (South)	2.13
ST. JOHN'S (CITY)	Grays Hill (West)	2.11
ST. JOHN'S (CITY)	Holberton Hospital	2.11
ST. GEORGE	New Winthropes (South)	2.10
ST. GEORGE	New Winthropes (North)	2.09
ST. JOHN'S (CITY)	George Street (South)	2.09
ST. JOHN'S (CITY)	Kentish North	2.09
ST. PAUL	Swetes (North)	2.09
BARBUDA	Barbuda (South)	2.00
ST. GEORGE	Upper Lightfoots	2.00
ST. JOHN'S (CITY)	A.B.S. (Old)	2.00

PARISH NAME	ENUMERATION DISTRICT	INCOME WEIGHT
ST. JOHN'S (CITY)	Barrymore	2.00
ST. JOHN'S (CITY)	Golden Grove School	2.00
ST. JOHN'S (CITY)	Green Bay Extension	2.00
ST. JOHN'S (CITY)	Point Water Front (East)	2.00
ST. JOHN'S (CITY)	Wapping Land (Central)	2.00
ST. JOHN'S (RURAL)	Belle View Heights	2.00
ST. JOHN'S (RURAL)	Moravian Conference Hall	2.00
ST. JOHN'S (RURAL)	Scotts Hill	2.00
ST. PAUL	All Saints (East)	2.00
ST. PAUL	Marsh Village	2.00
ST. PAUL	Pattersons	2.00
ST. PAUL	Swetes (East)	2.00
ST. PETER	All Saints (North)	2.00
ST. PHILLIP	Willikies (East)	2.00
ST. JOHN'S (RURAL)	Tomlinsons	1.95
ST. GEORGE	Pigotts (St. Mary's)	1.91
ST. JOHN'S (CITY)	Edward Street	1.91
ST. JOHN'S (RURAL)	Tomlinsons	1.91
ST. JOHN'S (CITY)	Sutherlands (Central)	1.90
ST. JOHN'S (RURAL)	Emmanuel	1.90
BARBUDA	Codrington (North)	1.89
ST. PAUL	Liberta (West)	1.89
BARBUDA	Codrington (Central)	1.88
ST. GEORGE	Barnes Hill (East)	1.88
ST. GEORGE	Carlisle	1.88
ST. JOHN'S (CITY)	Wapping Lane (South)	1.88
ST. JOHN'S (CITY)	Green Bay Central	1.86
ST. JOHN'S (CITY)	Green Bay School	1.86
ST. GEORGE	Pigott School	1.86
ST. JOHN'S (CITY)	Skeritts Pasture (South)	1.86
ST. JOHN'S (CITY)	Tindale Road (North)	1.86
ST. PAUL	Liberta (North Central)	1.86
ST. PETER	Pares (East)	1.86
ST. JOHN'S (CITY)	Grays Hill Reservoir	1.85
ST. MARY	Bolans (Jolly Beach)	1.83
ST. JOHN'S (RURAL)	McKinnons (Salt Pond)	1.82
ST. JOHN'S (RURAL)	Pigotts Ville	1.82

PARISH NAME	ENUMERATION DISTRICT	INCOME WEIGHT
ST. PAUL	Tyrells	1.82
BARBUDA	Barbuda (North)	1.80
ST. GEORGE	Sea View Farm (Central)	1.80
ST. JOHN'S (RURAL)	St. Claire	1.80
ST. MARY	Ebenezer (Green Hill)	1.80
ST. PETER	All Saints (Jones)	1.80
ST. PETER	All Saints (Playground)	1.80
ST. PHILLIP	Newfield	1.80
ST. JOHN'S (RURAL)	Belmont	1.79
ST. MARY	Bolans Clinic	1.78
ST. PAUL	Dow Hill	1.78
ST. JOHN'S (CITY)	Matthews Street	1.77
ST. JOHN'S (RURAL)	Potters (Cemetery)	1.77
ST. JOHN'S (CITY)	Grays Hill (East)	1.76
ST. JOHN'S (CITY)	Blackburn Park	1.75
ST. JOHN'S (CITY)	Simon Bolivar Park	1.75
ST. JOHN'S (CITY)	Upper Fort Road (Central)	1.75
ST. MARY	Johnsons Point	1.75
ST. JOHN'S (CITY)	Baxter Street	1.73
ST. MARY	Old Road (West)	1.73
ST. PAUL	Christian Hill	1.73
ST. JOHN'S (RURAL)	Bendals Road	1.71
ST. JOHN'S (RURAL)	Bramms Hamlet (North)	1.71
ST. PETER	All Saints (Playground)	1.71
ST. JOHN'S (CITY)	Buckleys Street (South)	1.70
ST. PAUL	Table Hill Gardens	1.70
ST. JOHN'S (CITY)	St. Johnsons (East)	1.69
ST. GEORGE	New Winthropes (East)	1.67
ST. JOHN'S (CITY)	Brams Hamlet Road (West)	1.67
ST. JOHN'S (CITY)	Cemetery	1.67
ST. JOHN'S (CITY)	Pigott Street	1.67
ST. JOHN'S (RURAL)	Five Island	1.67
ST. JOHN'S (RURAL)	Union Road (North)	1.67
ST. MARY	Bolans (Central East)	1.67
ST. PAUL	English Harbour (Middle Ground)	1.67
ST. PETER	Diamonds	1.67
ST. JOHN'S (CITY)	Buckleys Street (Central)	1.64

PARISH NAME	ENUMERATION DISTRICT	INCOME WEIGHT
ST. JOHN'S (CITY)	Pelle Street East)	1.64
ST. JOHN'S (CITY)	Station Road (North)	1.64
ST. MARY	Bolans Hill	1.64
ST. GEORGE	Sea View Farm (Zion)	1.63
ST. JOHN'S (CITY)	Census Office (North St.)	1.63
ST. JOHN'S (RURAL)	Skeritts (East)	1.63
ST. MARY	John Hughes (BreakNeck)	1.63
ST. PAUL	Green Hill	1.63
BARBUDA	Codrington (South)	1.60
ST. JOHN'S (CITY)	Clare Hall (West)	1.57
ST. MARY	Old Road (North)	1.57
ST. JOHN'S (CITY)	Villa School	1.56
ST. PETER	All Saints (Anglican Church)	1.56
ST. MARY	Bolans (Jolly Hill)	1.55
ST. MARY	Old Road (Claremont)	1.55
ST. GEORGE	Barnes Hill School	1.50
ST. JOHN'S (CITY)	Nelson Street (West)	1.50
ST. JOHN'S (CITY)	Tanner Street	1.50
ST. JOHN'S (CITY)	Villa (Central)	1.50
ST. JOHN'S (CITY)	Whenner Road (North)	1.50
ST. MARY	Crabb Hill	1.50
ST. MARY	Ebenezer (Hall)	1.50
ST. PAUL	English Harbour (Town)	1.50
ST. PETER	Freemansville (North)	1.50
ST. PETER	Freemansville (South)	1.50
ST. PHILLIP	Willikies (West)	1.50
ST. MARY	Jennings (Central)	1.45
ST. JOHN'S (CITY)	Buckle's Street (Harbour)	1.44
ST. JOHN'S (CITY)	Dickenson Bay St. (West)	1.44
ST. JOHN'S (RURAL)	Prison Farm	1.41
ST. GEORGE	Pigotts (Moravian)	1.40
ST. JOHN'S (CITY)	Golden Grove	1.40
ST. JOHN'S (RURAL)	Bramms Hamlet (South)	1.40
ST. MARY	Urlings (St. Mary's Church)	1.40
ST. JOHN'S (CITY)	Ottos (West)	1.38
ST. JOHN'S (CITY)	Friars Hill (West)	1.33
ST. JOHN'S (RURAL)	Adelin Clinic	1.33

PARISH NAME	ENUMERATION DISTRICT	INCOME WEIGHT
ST. JOHN'S (RURAL)	Potters (East)	1.33
ST. MARY	Bolans (Central West)	1.33
ST. MARY	Bolans (Tottenham)	1.33
ST. MARY	Old Road (Central)	1.30
ST. PETER	Pares (West)	1.29
ST. GEORGE	Airport	1.25
ST. JOHN'S (RURAL)	All Saints (Police Station)	1.25
ST. PAUL	Falmouth	1.25
ST. GEORGE	Pigotts Hill	1.20
ST. JOHN'S (CITY)	Martins Road (East)	1.20
ST. PETER	All Saints (North)	1.13

Appendix D

Proportion of households that have used computers during the last 12 month

Parish Name	ENUMERATION DISTRICT	INCOME WEIGHT	PROPORTION OF HOUSEHOLDS THAT HAVE USED COMPUTERS	PROPORTION OF HOUSEHOLDS THAT OWN COMPUTERS
ST. GEORGE	Fitches Creek	3.29	100%	64%
ST. JOHN'S (RURAL)	Marble Hill	3.22	100%	92%
ST. GEORGE	Coolidge	3.18	100%	91%
ST. GEORGE	Sugar Factory	2.55	100%	91%
ST. JOHN'S (RURAL)	Clare Hall School	2.21	100%	100%
ST. GEORGE	New Winthropes (South	2.10	100%	91%
ST. JOHN'S (CITY)	Pigott Street	1.67	100%	73%
ST. JOHN'S (CITY)	Friars Hill (West)	1.33	100%	67%
ST. JOHN'S (RURAL)	Tomlinsons	1.91	95%	59%
ST. GEORGE	Pigotts (Central)	2.45	92%	83%
ST. JOHN'S (RURAL)	Crosbies (W.I.O.C)	2.88	91%	91%
ST. PHILLIP	St. Phillips	2.36	91%	82%
ST. GEORGE	Upper Lightfoots	2.00	91%	82%
ST. GEORGE	Pigotts (St. Mary's)	1.91	91%	64%
ST. JOHN'S (RURAL)	Five Island	1.67	91%	64%
ST. MARY	Bolans Hill	1.64	91%	64%
ST. JOHN'S (CITY)	Villa School	1.56	91%	64%
ST. MARY	Bolans (Jolly Hill)	1.55	91%	36%
ST. JOHN'S (RURAL)	Trade Winds	3.00	90%	90%
ST. PETER	Parham (Byans Wharf)	2.29	90%	80%
ST. PETER	Pares (East)	1.86	90%	80%
ST. JOHN'S (CITY)	Cortsland	2.29	86%	86%
ST. PHILLIP	Freetown (North)	2.29	86%	71%
ST. JOHN'S (RURAL)	Pigotts Ville	1.82	83%	52%
ST. JOHN'S (RURAL)	McKinnons	2.85	82%	77%
ST. MARY	Boggy Peak	2.27	82%	77%
ST. PAUL	Swetes (North West)	2.27	82%	64%
ST. JOHN'S (RURAL)	Upper Clare Hall	2.17	82%	64%
ST. JOHN'S (CITY)	Holberton Hospital	2.11	82%	59%
ST. JOHN'S (CITY)	Barrymore	2.00	82%	82%
ST. JOHN'S (CITY)	Wapping Land (Central)	2.00	82%	73%

ST. JOHN'S (RURAL)	Tomlinsons	1.95	82%	73%
ST. JOHN'S (RURAL)	Belmont	1.79	82%	73%
ST. MARY	Bolans Clinic	1.78	82%	64%
ST. JOHN'S (CITY)	Baxter Street	1.73	82%	64%
ST. GEORGE	Sea View Farm (Zion)	1.63	82%	64%
ST. MARY	Ebenezer (Hall)	1.50	82%	55%
ST. MARY	Jennings (Central)	1.45	82%	55%
ST. PETER	All Saints (North)	1.13	80%	40%
ST. PAUL	Dow Hill	1.78	78%	78%
ST. JOHN'S (CITY)	Grays Hill (West)	2.11	77%	73%
ST. JOHN'S (RURAL)	McKinnons (Salt Pond)	1.82	77%	59%
ST. PETER	All Saints (Jones)	1.80	75%	67%
ST. JOHN'S (RURAL)	Hodges Bay (Royals)	2.33	74%	65%
ST. GEORGE	Renfrews	2.44	73%	82%
ST. GEORGE	Upper Lightfoots	2.27	73%	82%
ST. JOHN'S (CITY)	Federation Road (North)	2.27	73%	73%
ST. PAUL	Swetes (Central)	2.27	73%	32%
ST. GEORGE	New Winthropes (North)	2.09	73%	64%
ST. PAUL	All Saints (East)	2.00	73%	64%
ST. PAUL	Swetes (East)	2.00	73%	64%
ST. PHILLIP	Willikies (East)	2.00	73%	64%
ST. JOHN'S (CITY)	Sutherlands (Central)	1.90	73%	55%
ST. GEORGE	Carlisle	1.88	73%	55%
ST. JOHN'S (CITY)	Green Bay School	1.86	73%	55%
ST. PAUL	Tyrells	1.82	73%	55%
ST. GEORGE	Sea View Farm (Central)	1.80	73%	45%
ST. JOHN'S (RURAL)	St. Claire	1.80	73%	45%
ST. MARY	Old Road (West)	1.73	73%	45%
ST. GEORGE	New Winthropes (East)	1.67	73%	45%
ST. JOHN'S (CITY)	Pelle Street East	1.64	73%	45%
ST. GEORGE	Barnes Hill School	1.50	73%	36%
ST. PETER	Freemansville (South)	1.50	73%	36%
ST. JOHN'S (CITY)	Dickenson Bay St. (West)	1.44	73%	27%
ST. GEORGE	Pigotts Hill	1.20	73%	18%
ST. JOHN'S (CITY)	Golden Grove School	2.00	70%	50%
ST. GEORGE	Airport	1.25	70%	40%
ST. JOHN'S (CITY)	Upper Gambles	2.38	69%	56%
ST. PETER	All Saints (Playground)	1.71	69%	50%
ST. JOHN'S (CITY)	Green Bay Central	1.86	68%	50%

ST. JOHN'S (CITY)	Grays Hill Reservoir	1.85	68%	41%
ST. JOHN'S (CITY)	Simon Bolivar Park	1.75	67%	38%
ST. PAUL	Bethesda (East)	2.20	64%	64%
ST. PAUL	Swetes (South East)	2.18	64%	64%
ST. JOHN'S (CITY)	Fort James	2.17	64%	64%
ST. JOHN'S (CITY)	Deneary	2.14	64%	55%
ST. JOHN'S (CITY)	George Street (South)	2.09	64%	55%
ST. PAUL	Swetes (North)	2.09	64%	55%
BARBUDA	Barbuda (South)	2.00	64%	55%
ST. JOHN'S (CITY)	Green Bay Extension	2.00	64%	55%
ST. JOHN'S (CITY)	Point Water Front (East)	2.00	64%	55%
ST. PAUL	Marsh Village	2.00	64%	55%
ST. PAUL	Liberta (West)	1.89	64%	55%
ST. GEORGE	Barnes Hill (East)	1.88	64%	55%
ST. JOHN'S (CITY)	Skeritts Pasture (South)	1.86	64%	45%
BARBUDA	Barbuda (North)	1.80	64%	45%
ST. MARY	Ebenezer (Green Hill)	1.80	64%	36%
ST. JOHN'S (CITY)	Cemetery	1.67	64%	36%
ST. JOHN'S (CITY)	Buckleys Street (Central)	1.64	64%	27%
ST. JOHN'S (CITY)	Clare Hall (West)	1.57	64%	27%
ST. MARY	Old Road (North)	1.57	64%	27%
ST. MARY	Old Road (Claremont)	1.55	64%	27%
ST. PAUL	Pattersons	2.00	63%	63%
ST. JOHN'S (CITY)	St. Johnsons (East)	1.69	62%	48%
ST. JOHN'S (RURAL)	Bendals Road	1.71	62%	62%
ST. JOHN'S (RURAL)	Adelin Clinic	1.33	61%	56%
ST. PAUL	Table Hill Gardens	1.70	60%	50%
ST. JOHN'S (RURAL)	Montclear	2.50	59%	59%
ST. JOHN'S (RURAL)	Skyline	2.17	59%	55%
ST. JOHN'S (RURAL)	Scotts Hill	2.00	59%	45%
ST. JOHN'S (RURAL)	Potters (Cemetery)	1.77	59%	41%
ST. JOHN'S (RURAL)	Prison Farm	1.41	59%	27%
ST. JOHN'S (CITY)	A.B.S. (Old)	2.00	59%	59%
ST. JOHN'S (CITY)	Gambles	2.33	58%	58%
ST. PETER	All Saints (Anglican Church)	1.56	58%	50%
ST. JOHN'S (RURAL)	Crosbies (Mill Tower)	3.00	55%	55%
ST. JOHN'S (RURAL)	Clarkes Hill	2.40	55%	55%
ST. PAUL	All Saints (South)	2.18	55%	55%
ST. PAUL	Liberta (West)	2.18	55%	55%

ST. PAUL	Liberta (South West)	2.14	55%	45%
BARBUDA	Codrington (North)	1.89	55%	45%
ST. GEORGE	Pigott School	1.86	55%	45%
ST. PETER	All Saints (Playground)	1.80	55%	45%
ST. PAUL	Christian Hill	1.73	55%	45%
ST. PETER	Diamonds	1.67	55%	45%
ST. JOHN'S (CITY)	Census Office (North St.)	1.63	55%	36%
ST. JOHN'S (RURAL)	Skeritts (East)	1.63	55%	36%
ST. MARY	John Hughes (BreakNeck)	1.63	55%	27%
ST. JOHN'S (CITY)	Villa (Central)	1.50	55%	27%
ST. JOHN'S (CITY)	Buckle's Street (Harbour)	1.44	55%	27%
ST. GEORGE	Pigotts (Moravian)	1.40	55%	27%
ST. MARY	Old Road (Central)	1.30	55%	18%
ST. JOHN'S (CITY)	Edward Street	1.91	53%	53%
ST. JOHN'S (CITY)	Upper Fort Road (North)	2.20	52%	38%
ST. JOHN'S (RURAL)	Union Road (North)	1.67	52%	33%
ST. JOHN'S (RURAL)	Emmanuel	3.00	50%	45%
ST. JOHN'S (RURAL)	Hodges Bay (Benaire)	2.60	50%	41%
ST. PAUL	Dieppe Bay	2.50	50%	41%
ST. JOHN'S (RURAL)	Cedar Grove (South)	2.13	50%	32%
ST. JOHN'S (CITY)	Upper Fort Road (Central)	1.75	50%	27%
ST. JOHN'S (RURAL)	Bramms Hamlet (North)	1.71	50%	50%
ST. PETER	Freemansville (North)	1.50	50%	25%
ST. JOHN'S (RURAL)	All Saints (Police Station)	1.25	50%	33%
ST. JOHN'S (RURAL)	Buckleys (East)	2.50	46%	33%
ST. PETER	Vernons	2.67	45%	55%
ST. MARY	Bolans (Jolly Beach)	1.83	45%	45%
ST. JOHN'S (CITY)	Blackburn Park	1.75	45%	45%
ST. MARY	Johnsons Point	1.75	45%	36%
ST. PAUL	Green Hill	1.63	45%	36%
ST. JOHN'S (RURAL)	Potters (East)	1.33	45%	27%
ST. PETER	Pares (West)	1.29	45%	18%
ST. JOHN'S (CITY)	Brams Hamlet Road (West)	1.67	45%	30%
ST. JOHN'S (CITY)	Cooks Hill Road	2.16	41%	36%
ST. JOHN'S (CITY)	Grays Hill (East)	1.76	41%	18%
ST. PHILLIP	Glanvilles (Central)	2.75	40%	40%
ST. JOHN'S (RURAL)	Moravian Conference Hall	2.00	38%	23%
BARBUDA	Codrington (Central)	1.88	36%	36%
ST. JOHN'S (CITY)	Wapping Lane (South)	1.88	36%	36%

ST. JOHN'S (CITY)	Buckleys Street (South)	1.70	36%	36%
ST. MARY	Bolans (Central East)	1.67	36%	27%
ST. MARY	Crabb Hill	1.50	36%	27%
ST. JOHN'S (CITY)	Tindale Road (North)	1.86	33%	19%
ST. JOHN'S (CITY)	Nelson Street (West)	1.50	33%	33%
ST. PAUL	English Harbour (Town)	1.50	30%	20%
ST. JOHN'S (RURAL)	Bendals	2.50	27%	27%
ST. PETER	All Saints (North)	2.00	27%	27%
ST. JOHN'S (RURAL)	Emmanuel	1.90	27%	18%
ST. PAUL	English Harbour (Middle Ground)	1.67	27%	18%
BARBUDA	Codrington (South)	1.60	27%	18%
ST. JOHN'S (RURAL)	Bramms Hamlet (South)	1.40	27%	18%
ST. MARY	Bolans (Central West)	1.33	27%	18%
ST. PAUL	Falmouth	1.25	27%	9%
ST. PHILLIP	Willikies (West)	1.50	25%	13%
ST. JOHN'S (CITY)	Golden Grove	1.40	23%	23%
ST. JOHN'S (RURAL)	Belle View Heights	2.00	22%	22%
ST. JOHN'S (CITY)	Whenner Road (North)	1.50	20%	20%
ST. PHILLIP	Newfield	1.80	18%	36%
ST. JOHN'S (CITY)	Matthews Street	1.77	18%	14%
ST. JOHN'S (CITY)	Station Road (North)	1.64	18%	18%
ST. MARY	Urlings (St. Mary's Church)	1.40	18%	18%
ST. JOHN'S (CITY)	Ottos (West)	1.38	18%	18%
ST. JOHN'S (CITY)	Martins Road (East)	1.20	18%	9%
ST. PAUL	Liberta (North Central)	1.86	10%	20%
ST. JOHN'S (CITY)	Kentish North	2.09	9%	0%
ST. JOHN'S (CITY)	Tanner Street	1.50	0%	0%
ST. MARY	Bolans (Tottenham)	1.33	0%	0%