

GENERAL
CEPAL/CARIB 81/15 /C. 2
17 November 1981
ORJGINAL: ENGLISH

ECONOMIC COMMISSION FOR LATIN AMERICA Sub-regional Headquarters for the Caribbean
BARBADOS EXPERIMENTAL MIGRATLON SURVEY -a p E!iminary Anslysis of the results
of rhe first 3 rounds
Page

1. Background ..... 1
2. Mechodology ..... 2
3. Results ..... 7
4. Consiswency Checks ..... 11
5. Possible Sources of Ereor ..... 14
6. Conelusions ..... 16
TABLES
I - XXI with the exacpizon of Table XVII ..... 18-37
FIGURES
(i) - (v)
APPENDIX
Questionnaľe
Edic:ng
Lisr of Computer produced Tables for$s$

# BARBADOS EXPERIMENTAL MIGRATION SURVEY a preliminary analysis of the results of the first 3 rounds <br> (A paper for consideration by the IUSSP Working Group for the Study of Migration) 

1. Background

Theory 1.1. The theoretical ideas for the. "indirect" estimation of outmigration by asking..questions about the residence of relatives have been elaborated in various, papers by members of the IUSSP Working Group for the Study of International Migxation. The principal sources for the methodology used in this analysis are Jorge Somoza's paper .'A Proposal for Estimating- the Emigrant Population by Sex and.Age an a. Country's Census", in which he discusses how to use information given by mathers on the residence of their children, and Ken Hill's paper_"A. Proposal for the Uses of Information on Residence of Siblings to Estimate Emigration by Age". The idea of combining and comparing the information from the reports of mothers. and the reports. of siblings is due to, John Blacker - it is outlined in his report to the working group on, the setting up of the experimental migration survey. : ! : :

Field Work 1.2... The migrarion survey was incorperated into the continuous household survey which Barbados Statistical. Service has been conducting on a quarterly basis since 1975. The quesionnaire (See Appendix) was designed.. by John Blacker, who also helped with enumerator training, and field trials. As it was felt that a fairly large sample was needed to ensure that.even relatively "rare" events.could be measured reasonably accurately, the sample. size of the household. survey: was doubled. for the duration of the migration survey (October 1980-to December . 1981) ,... A. two =srage_sample,was used_-. enumeration districts. were sampled.with probability proportional to size, and then a systematic sample of households..was.taken within..each district, -so. the number of households was approximately the same from each district.in the sample, and the probability of any household appearing in the sample was the same. The household sampling frame was taken from the census household count
(the census was conducted in April 1980). The sample was designed by Eric Straughn, Chief Statistician.

Editing and Coding-1.3. Rules for manual editing (See Appendix) and coding were drawn up.by.John Blacker, but were revised after the first round fieldwork was completed. This part of the operations was under the control of Ms. Avril Scantlebury, Senior..Statistician - it is worthy of comment, , that.after the ' 'breaking-in" period when the first round questionnaires were pracessed, the. document editors. reached such a level of profficiency that in the second round, the computer edit discovered only one validity error in a total of 4,725 records:

Data Processing.1.4. Coded information was punched onto diskettes, for processing at. the Barbados Government. Data Processing Unit, on an IBM 370-115 computer. ... Processing-was. accomplished using a purpose. written set of Fortran programs which edited the data, stored all the clean data round by round on.a.disc file, created "mother" and "sibling". files of selected_fields from each_record_for the two_sets_of tables, and compiled_and_pripted the_tables... The list_of_tables_available so far is shown in the appendix. A copy of the complete table set for the first 3 rounds, and a listing_of_the programs are availa ble for inspection. (The programs are still being revised and extended with a view to incorporating-more_of the analysis).

## 2. Methodology

Assumptions re Fertility and Mortality 2.1. . To enable the fullest use to be made of -information collected in the Survey, it is necessary to make some assumptions about the age distributions of children of respondent mothers, and the age distribution of mothers of respondent children. It is not-passible to calculate these distributions directly from information_collected.in the survey, but if.precise data were available about the course of fertility and mortality in the years. preceeding the survey, these distributions could be put. on a sound empirical basis. In the case of the present. "preliminary"-analysis, it was not felt to be worthwhile to compute these distributions empirically, as this would have necessitated the construction of life tables and
fertility schedules spanning. the whole of this century. Later in the course of the analysis, many. crude simplifying-assumptions are made, so it was felt that some simple assumptions about fertility -and mortality were also. In order. The Barbados 1970 age specific fertility and mortality rates, as reparted_in..the UNDY special issue (historical supplement) were taken as constant over the relevant time period. Single-year values were estimated from given five-year age group values by freehand graphical interpolation. Figure (i) shows the graph of survivorship values by age, and figure (ii) the graph of relative age specific fertility rates, used in the subsequent calculations.

Theoretical Age Distributions of Children and Mothers 2.2. If the number of women currently aged $\$$ is denoted by $N x$, then the number of children currently aged $\mathcal{I}$ with mothers aged $x$ is given by:

$$
N x \cdot U_{y} \cdot f x-y
$$

where $4 y$ is the probability of surviving from birth to age $y$, and $f_{x} x$ is the fertility rate at age $\mathcal{S}$, assuming fertility and mortality are constant.

From this it can be shown that the proportion of children aged to $Y \$ 5$ of mothers aged $X$ to $X+S$ is:

$$
\int_{0}^{\rho \beta} \int_{y}^{\infty} \int_{x}^{0 x+5} N x \cdot d x-y \cdot d x \cdot d y
$$

where of and $\beta$ are the youngest and oldest ages respectively of children of women aged. $\mathcal{N}$ to $X t$. This expression was evaluated by numerical integration over the conventional. 5-year age=groups.asing..the fertility and mortality schedules illustrated above, -and making the further simplifying assumption, that the distribution of mothers within each 5-year age group was approximately rectangular. The resulting distributions are shown in Table $I$.

Similarly, if $N y$ is the number of children currently aged $y$, then the number of mothers of these children who would currently be agedxif they survived from the births of those children, would be:

where $f\left(=\int_{\text {is }}^{50} f x \cdot d x\right)$ is the total fertility rate. From this we can see that the number of children aged $Y$ to $Y+5$ who would have mothers aged $X$ to $X+5$ as a proportion of all children aged $Y$ to $Y+5$ is:

$$
\frac{\int_{x}^{0 x+5} \int_{Y}^{Y+5} N y \cdot f_{x-y} \cdot d y \cdot d x}{\int_{\alpha}^{B} \int_{Y}^{Y+5} N_{y} f_{x-y} \cdot d y \cdot d x}
$$

where $\alpha, \beta$ are the youngest and oldest possible ages of mothers of children aged to $Y+5$.

Once again the above expression was evaluated numerically, again.... assuming that within a five-year age-group, the distribution of children was approximately rectangular. The results are shown in Table II.

Obtaining -the Age. Distribution of Emigrant Children .2.3. The theoretical age, distribution in Table $I$, can be applied to the number of children reported by women in each age-group, to obtain the distribution of these children by age. By summing across the children's age-groups an overall. distribution of surviving. children ..by age, can he obtained.
Table III shows the numbers.of.surviving children reported. by. each. age-. group of mother and their breakdown. by. sex and. residence (Barbados/abroad). By assuming that the age distributions of surviving_children shown in Table I hold also for each sex and residence category, it is possible to obtain the age. distributions of male_and female, resident and emigrant children... Table IV shows this procedure applied to male emigrant children, and Table $V$ shows the same thing for female emigrant children, as reported by their mothers who are resident in Barbados.

The assumption about.the age distributions being the same for each sex and residence category is not entirely realistic - for one thing, sex differences in the pattern of mortality would rend to make the age distribution of male children slightly younger than that. of female. children.. Also, if migration.takes place mainly in the $20-40$ age-groups, the age distributions of emigrant surviving children would tend to be older than that of residents.

A refinement of Table I could be devised, using some theoretical ( model of the age-specific-propensity to emigrate, , but this has not been done in the present analysis - partly because of..its exploratory nature, partly because_it is felt that Barbadian emigration patrerns may display peculiarities that a general model may just.obscure.- e.g. as in other West Indian societies,_it.is not. uncommon for_children_to. live_ with grandparents and other relatives, or to be sent to schools abroad; and there īaconsiderable amount of return migration across all age-groups.
$\therefore$ Allowing for the Effects of Orphanhood and Marernal Migration 2.4 . The age. distribution of emigrant. children obtained above, only accounts for those emigrants_who..have-a mother living_in_Barbados who is able to report on them-.i.e. those whose mother has died or. herself emigrated are not reported on....All.. respondents.in the survey were..asked..if..their. mother was alive, and..if.so, was she resident in Barbados. When the results of this inquiry are tabulated by age of respondent as in Table. VI it is possible to find what proportion.of respondents in each age-group have a..mother . living..in.. Barbados....These reported proportions. were. smoothed graphically, yielding the values shown in the last. column of Table. VI, Assuming that.the same..proportions apply to emigrant children, and dividing_the number.of. emigrant_children.. in each_age=group (derived. from the reports of their mathers) by the proportion in that age-group who have a mother resident in Barbados, yields an estimate of the total emigrants in that age-group. This calculation is shown in Table VII .

It is likely that this procedure somewhat under-estimates the total number of emigrants, especially for the youngest age-groups, where one might expect morhers to migrate with their young children. It is a small
consolation, that the resulting bias towards older ages in the estimate. of the age distribution of emigrants, would tend to offset the bias towards younger ages discussed in section 2.3 , caused by ignoring the age patterns of migration.

Reports on Siblings. 2.5. Each respondent in the survey was questioned about the residence. and survival of his/her siblings_-i.e. how many brothers and..sisters. they had.living in Barbados., how many living. abroad... and how many who had died.... In all..cases, it. was made_clear that the information sought referred to brothers.and sisters by the same mother, and that the respondent was to be included.in the member of resident siblings... The responses could not be dealt with as simply as those of the mothers about children, because of the problem.of multiple reporting: a person who has $k$ resident siblings.in.. Barbados would be times as likely to be reported as.a. person who has only one resident sibling (or is the only resident sibling in the family). . To overcome this problem, the responses about numbers of siblings..were weighted. by the inverse of the number of resident. siblings.. Table VIII shows the distribution of siblings by sex and residen念e/survival status, and by age of respondent, after weighting for multiple response.

Adjusting for Whole Eamily-Emigration 2.6. ... The next step is to estimate . the number of emigrants who could not be reported on, because they had no.resident siblings.....Information. on. the extent of migration of whole family groups of siblings is available from.the reports of mothers. Table IX shows the numbers of..children reported abroad ..by all. mothers, compared with the numbers.af children reported abroad by. those. mothers. who...have no children resident in Barbados, , and this information.. is broken down by age of mother . . The ...ratio. children abroad:... children... abroad. with..resident siblings.is. somewhat irregular due to the small. numbers involved. but. suggests.a. (U. shaped pattern by age of mother. To smooth out the irregularities, the ratios.were re-calculated using the sums of 3 adjacent age-groups and then smoothed graphically. These 'smoothed" ratios are also shown in Table IX.

The (weighted) distribution of siblings abroad by age of respondent is then converted..into a. distribution of siblings_abroad.by ."would-be" age of mother - i.e by the current age of the respondent's.mother, assuming she is still alive. This is done by applying the theoretical distribution shown in Table Ir, to the total emigrant siblings in each age-sroup as shown in Table VIII. The calculations are shown in Tables $X$ and $X I$ for emigrant brothers and emigrant sisters respectively.

By multiplying the totals in each "mother's age-group". by the appropriate ratio of total children abroad: children abroad with resident siblings as derived in Table IX, estimates of emigrant siblings adjusted for "whole sibbling group" migration are obtained. This calculation is shown in Table XII.

Obtaining the Age distribution of Emigrant Siblings.2.Z.. Finally, the age distribution of the emigrant siblings themselves is obtained, by applying the theoretical age distributions.of. children for each age-group of mother shown in Table I, (just as. was done with the reports of the mothers, described_in section 2.3). No further adjustment is required for orphanhood and maternal migration, because_the..theoretical age distribution of the mothers of the respondents assumed no maternal mortality. This. last calculation is shown in Tables XIII and XIV for male and female emigrants respectively.
3. Results

Response Rates 3.1. A total of 13,154 responses were collected from the individuals.living_in the sample_households.in the first 3 rounds. As the census count of individuals in_private bouseholds was 246,082, .this represents 5.35-per-cent of the non-institutional population. 945 respondents_ (400_males_and_545 females) ..were reported. as foreign.... born (7.2\%), and thesewere excluded from_this.analysis, as it was assumed. that most of the relatives of ..foreign=born respondents who live abroad would not be Barbadian emigrants. Of the Barbados-born females, 4,690 were over 15, and were asked questions about their children.

Only 78 respondents. ( $0.64 \%$ ) did not. provide. any information about. . the residence and survival of their siblings, and only 26 (. $56 \%$ ) of the women over 15 díd not provide complete. information about their children. These respondents.were also.. omitted from the analysis, so that the final number of responses. analysed..was .. 12131. (5745 males. and 6386. females). on the sibling-and arphanhood.questions, and 4664.females over. 15.on the children questions... Of.these respondents, there.were none whose age. was not known, or who could not give.information_about residence. and survival of their mothersa.. The response rate would thus appear to be very high, and indeed enumerators did not report any reluctance to answer these questions amongst.the-people interviewed. 'The only households in the sample which did not yield any information were those which were found to be unoccupied.

Estimates of Emigrants from. Mother's Reports. 3.2... Table III shows that the total number of emigrant children reported by mothers is. 2,216 . (1136 sons. and 1,080 daughters). ... Table. VII shows thar after..adjustingfor the effects. of-maternal_orphanhood_and migration, a total of 4,946 emigrants is obtained (2566 males and 2380 females). This represents an overall adjustment factor of 2.23 .

The estimated age distribution of emigrants shows a similar pattern for both sexes: the numbers rise steadily with age up. to the $40-44$ age-group, continue to.rise but more gradually up.. to the . 60-64 age-group, and then decline at older.ages.. Table.VII also. shows the estimated emigrants expressed_as_a proportion of emigrants. plus.residents...in each age-group and this data_is displayed.in Figure...(iii).....The pattern. is broadly similar for the sexes - rising. slowly up to the $20^{\prime}$ s, sharply up to the $40^{\prime} \mathrm{s}$, then more slowly again to the $60^{\prime} \mathrm{s}$ and then coming down again sharply. Male proportions emigrating are noticeably. higher than . those for females.from_the mid $=20$ 's.onwards. . If this pattern is true, it would indicate either a substantial_amount of return migration at older ages, or. a lower, life=time propensity to. migrate_on the part of the cohorts currently.aged_over 60. (The decline. at.old_ages.could also. be an artefact, produced by omissions in reporting emigrant children by the older women - see discussion in section 5 . The proportions who have
emigrated are very high: the overall percentage for all ages and both sexes is 29 per-cent; the peak for males in 55 - 59 age-group is over 60 per cent; for females the peak is in the $60-64$ age-group at over 50 per cent.

Dividing-the estimated number of emigrants by the sampling fraction (.0535) would yield a national estimate of 92,449 emigrants ( 47,963 males and 44,486 females).

Estimates of Emigrants from.Sibling-Reports. 3.3. Table.VIII shows that the survey respondents reported a total of 4,916 siblings abroad (after weighting_to, counter the effects.of multiple response), composed of 2,510.brothers.and 2,406. sisters.-. Table XLI_shows that after making ... allowances for the emigration of whole sibling groups, we have an adjusted total of 6,535 emigrants, comprising 3,352 males and 3,183 females. This represents an overall adjustment factor ofil.33.

The estimared age distribution of the emigrants is shown in Tables XIII and XIV for males.and females respectively. The age pattern is similar for the sexes. - rising..steadily up to . the 50_-. 54. age=group. and. then declining steadily. Emigrants expressed as a percentage of residents plus emigrants in each age=group are shown in Table. XV, and Figure (iv) displays these.resulrs_graphically.. At. ages.under. 20; proportionally more. females are.emigrants than males (though the differences are not large), but the reverse-is true.for ages over 30. Proportions who have emigrated. rise steuply up. to the end..of the $40^{\prime} \mathrm{s}$, level out in the $50^{\prime} \mathrm{s}$ (at over $70 \%$.. for males. and.. $\mathrm{m}_{\mathrm{v}} \in \mathrm{r} . .60 \%$ for females), and. drop. sbarply. afrer age 60. Again, the level ismexy, high, hut the pattern_ties in reasonably well. with what is generaliy presumed about patterns.of migration with age.- that the bulk of migration fakes place in early adulibood. - the dramatic. fall offat older ages could be due to return migrarion, or less initial outmigration for the older cohorts. The overall proportion migrating for all ages and borh sexes is 35 per cent - even higher than that derived from the reports of mothers.

Dividing the sample estimate of total emigrant's by the sampling fraction, gives us a national estimate of 122,150 emigrants - comprising 62,655 males and 59,495 females.

Comparison of the two sets of Results 3.4. The sibling method yields a substantially higher estimated total number of migrants $(6,535)$ than the children method $(4,946)$. The estimated sex composition of the emigrant population is more or less the same for both methods with a small excess of males - the sex ratios being 1.07 for the sibling method and 1.05 for the shildren method.

Figure (v) shows a comparison of the age distributions of emigrants obtained. from the two methods. - the differences in pattern as well as level are quite substantial. The sibling merhod age distributions come to a higher, sharper and earlier peak, and fall of much more rapidly with age. In the 50-54 age-groups, the sibling method estimates for either sex are twice the size of the children method estimates.

Current Emigration from.'last year"' Questions 3.5. Questions were also asked about the numbers of siblings and children emigrating in the last year. Mother's reports yielded a total of. 71 children ( 33 sons and 38 daughters) who left in the year before the survey. Applying the same overall adjustment. factor of 2.23 , which was the result of adjusting mother's reports for orphanhood and maternal migration, gives an estimated 158 current emigrants ( 74 males and 84 females).

Similarly, siblings reports yielded a total of 106 .siblings. (45 brothers and 61 sisters). Who left in the year before the survey. Using the overall adjustment factor of 1.33 derived for correcting sibling reports yields a total of 141 current emigrants - comprising 60 males and 81 females.

Taking the average of the two estimates (150) and expressing this as. a fraction of the cotal respondents, gives a current migration rate of 1.24 per cenc per annum. Dividing it by the sampling fraction gives a national estimate of 2,804 emigrants in the year before the survey (roughly speaking - 1980).

Both methods indicate an excess of females over males amongst current migrants, with the sex ratios averaging out at about .81-i.e. out of the 150 current emigrants 67 would be male and 83 female.

Current Emigration trom Proportions Emigrated by Age 3.6. The numbers of current emigrants reported.directly are. too small. to wartant any attempts at finding their age-structure by methods.such as those outined in section 2. However, by taking the results of the calcularions shown in Tables VII and.XV - the percentages of emigrants in each agegroup, it is possible to calculate the expected annual rate of ourmigration for each age-grcup.

As a first step, the persentages of emigrants in each age-group calculated by the two methods were averaged, and. then these averages were smoothed graphically. The resulting smoothed percentages are shown for each sex in Table XVI. Next, the berween age-group inctements in the percentages of emigranss-were found, divided.by. 5 to ob:ain. annual, rather than 5-year increments, and divided by the pexcentage of remaining. residents in the age=group, to give the annual emigration rates. These are also shown in. Table XVI. The expected numbers of current emigrants were then found by applying these rates $t=$ th $\equiv$ respondents in aach age-group.

The resulting-rotals of curcear. emprontanare_ 75 maies and 64 females
 directly from the reporis.on cur
 total migrants imply heasier mıgialion_amongstmen than women. Ir might. well be, howevei, that recently the sex bilance of migration has undergone a change, and this would account for the differences in the two sets of results.
4. CuE

Comparison of Mor $h \geqslant s=$ and Siblings Repoct5 4, 1 . Section 3 dealt exclusively whth the extlmation it emigrants, and revealed some quite large differenies between $t t_{i=}$ estimates from ree two sources. Before looking in detall ar possibiz la.ess of these disirepancies, it is.
useful to make some other comparisons, whizh might shed some light on the reliabilaty of the data, and to some extent, of the method=logy used.

Table XVIII shows some comparisons between reparra it difteren: sets of respondents which shouidngive che same results - e.g. . the repurte. if mothers with.resident sons should tally with the reports ui sons wirh resident morhers, after the lacter hive been weighted. fz: muliple response. In general, rhe agreemenrs are prerty =1ose, except in rhe case of reports about dead. nildrentsiblings, where the marbec's ceporte exceed those of siblings by anywere between 15 per asnr and 50 per aent. It is not surprising co find that repocting of dead 三iblings is leas complete than the reporting of dead. Children, asedeaths or sibings could have raken place before the respondent, was born, and he: she might grow up in ignorance of the death of an elder sioling.

Apart from the sategory of dead thisdrenisibilngs, rhe reporzs et mothers with. resident ohildren and of morhers wheh zesident daughterc aie
 mothers. However, the reports of morhers wirh residenr sons are in most cases higher than the reports of bicthers with residens mithers:

 other, because of the way in whith rie rw "alues aze.derived. For example, the number of mathers win sesident children reparted by the mothers themselves is mote Likely so be surect than the number of such
 the former depend ooly, on whether the mother was corearly iden:itied as having or not having-had:one or mice Ehildien, whereas rine iartic depend both on the correctness of the response_to. the quescian on mother!s. residence and on the correct statemint. of . ooral number of resideat.



 the corcecrness of the respraze abuat mu"hor's residen.e, whereas the latrer involves the corsect satemeat of the actual number if resident
children by each mother. Where one value is more "believable" than its pair, in Table XVIII it has been ringed.

Comparisons of Reports by Males and Females 4.3. The number of families with one or more brothers derived.from the weighted. reports. of females should be the same as the number of families with one or more. sisters, derived.from.the weighted reports of males. The actual numbers of such families reported.is.shown in Table XIX, for the respondents classified. by residence/survival of mother. Female reports of the number of such families exceed male reports in all cases. In the case of respondents with resident mother, the mother's reports 1 ie between the values reported by either sex, but much closer to the male value.

Distributions of Families by Size 4.4. As well as agreement in absolute numbers, one, would expect agreement in the distributions of families by number. and sex..of children between. reports of mather. with. resident . children and_siblings with resident. mothers. The agreement should. be. particularly strong as regards the - Imposition of families in terms of. resident children, as one would expect omissions fere to be least significant. Table XX shows the percentage distributions of such families, by number and sex of resident children based on the reports of mothers and siblings.

The general agreement between the distributions is pretty good, but the small deviations present axe systematic: siblings. report higher. proportions of families in che -áegicies zero sons, zero. daughters, one son, one daughcers-one_child, and_hidinhildren, chan do mothers in the corresponding categories; to balance chis, mothers consistently report higher proportions of families in ike higher size categories.

Brothers Reports on Sisters and Sisters Reports on Brothers 4.5. One further comparison oi family structure is made possible by the theoretical relationships:

$$
\begin{aligned}
& E\left(m_{g}\right)=\infty \cdot F_{b-1} \\
& E\left(F_{s}\right)=m_{s-1} / r
\end{aligned}
$$

where $\mathbb{H}_{6}$ is che number of male respondents with $b$ brothers, $M_{S}$ the number of male respondencs with $S$ siarers; $F_{6}$ and $F_{s}$ the numbers of female respondents whth $f$ bro hers and $S$ stscers sespectively, and $V$ is che sex ratio (male: female, of respondents in the sample. Table XXI shows the observed and expected numbers of male and femala respondents distributed by numbers of sisters and brothers.

The imporiance of this comparison lies in the fact that the "expected" distributions.are derived_fam...the (unweighted) distributions of respondents by number of siblings of the opposite sex - hence there can be no question of bias arising from.the exclusion of. the respondent from the number of resident siblings.of the same sex. A study of Table. XXI shows only one major discrepancy between the observed and expected values - a large excess of females respondents in the "only sister" category.

## 5. Possible Sources of Error

Possible Over-estimation 5.1. The methods discussed in Chapter 2, were designed_to measure the numbers., of persons.born_in Barbados, currently living abroad_- bur inevitably some peopie_must be wrongfully included in the reported emigraprs - eng-children and siblings barn abroad to. Barbados-born persons currenciy.realding in Barbados. similarly, the adjustment. factars nsed for ma=zrnal ar:phanhood/migcation and emigration of whole sibling-gioups might be sifigbcly coo high, as some of the children born to mothers who have migrated curld bave been born abroad, and some of the sibinggs of those sibling $\quad$;oups murenriy all residing abroad, could in fact have been bo:n abroad. $N:$ : $A$ fempr has been made here to quantify these biases - but ir is presumed they are small.

Children of Foreign Bosa Methere 5, 2. The reverse kind of bias is caused by omirting.invmithentepstred. emigrants Barbados-born children and siblings. of fereign-burn pexsuns. it is felt that due to the nonnegligible numbete.if perisons from other East Cariobean. Islands setting and marrying in. Barbades, $i \because$ : might be pirticularly important ro take account of

women with $=$ Escdenr ibidaren would more than acesunt for the discrepancies among sesident shiliten syown in the first rwz columns of Table XVIII.

Omisjian er Chlliten by Older Mothers 5,3. Another potential source of downwat beas in the mother's reports on children lies in omissions in the repozte af older woman. The penulcimate zolumn of Table III shows the repori $\equiv$ d mean pa: and chas cannst be explainad by lower terxilicy. in the past, as a' check against the mesa parjries at these same women at younger ages, as reported in the 1960 aod ig70 censuses rules.this out Proportions childess (not shown he: z) invecace aftec age 50.- furcher evidence of omissions. It has often beon atared. what it.iz the dead. children in particular, who are liable : $:$ be omitind ficcanheolder women.!s reporis - but a quick. examination of reported pzopartions sucviling sy age of mother (last. column of Table LLI) shows that despite a few irregularities, they generally desline in a manner. onnsistent with the life table used foz this population. it $1 s$, therefore, likely that omissions have been made. in the zeports. of Gider women both in inving and dead shildren. Even if there were no tendeniy to cmic smigrant facher than resident children, this could azosunc tor. the larger. diserepancies in the reports of.




万F
 data, as rise numbers.ar sionsags reporied by the respondent would be divided by one besa. than rise axtes number, There is evidence that some such omissior (88 malias and i09 temsies) who were recorded is having-zero.resident siblung = of the zame sex - (An etror rate of $1.6 \%$ ) - it is not known how many eisers of mhis knad wete derested and raxcected during manual editing.

The correcrion at ubs exror results in a heaping of respondents in the caregoty "only ż三idsat brother" and "only resident sister", since persons who axe really ine $=t$ a pair ut resident same-sex siblings, but are reported as "oniy" yesidene brathers or siscers cannot be detected during editing, and so $己$. nor get. zorrected.. Evidence of such heaping is present in the comparison of distributions of tamilies by number and. sex of siblings irom, the repotts of mothers and s2blings, shown in Table. XX, but Table XXI would appear. to show that. this heaping is only present in the case of ímoise bur noc males. Why such a reporting error should be sexspecific is not ar äl clear:

## 6. Conclusions

Internal Discrepancies.6.1. The estimated number of emigrants based . on the two methods differ by some 25 .. per cent. and._it is. pretty certain. that the sibiling methad over-estimares. che number somewhat, whilst the children method-prsbably under-estimates it. . It would, therefore, be reasonable to regaxd the two estimates as upper and lower limits for the true number. .It.is difficult...to arrive at. such a firm conclusion regarding the age distribuitons of emigrants.-produced_by the two methods, since. these are generated by rather elaborate methods which involve many untested assumptions - moze work would need to be done on the age models involved.

External Checks 6,2, To daíe, no da-a on Barbados-born persons living abxad bas become availabie from other zountrys'. censuses, so that no truiy. indepanacna, veaiticatasn of these. results.. has . been possible. The figures are indjobcedly high.- ajeriging kie two rotals scaled up to the nationai levei glves. 107, 300. smigrants, or about 32 per.cent of all persons born in. Barbados. However, some recent wo $k=1 /$ on incercensal population change. in the 1960.ro 1970 incerval, shows that out-migration for that decade anounted te about 44,500 persons, so the order of magnitude arrived at is quire piausible.

[^0]Estimates of :urrene net migration based on entry and departure statistics run at about 2,000.per annum outwards, and this is generally felt to be a quite severe under-estimate. Thus, the figure of 2,800 derived above isr :ursent out-migrarion would appear to be pretty reasonable also.

Feasibiniry of Using this Method Eisewhere_6. 3. On the whole, this approdth ro medsuring our migration has been pretty successful in Barbados, but betore assuming that it would work elsewhere, two consideracions must be borne in mind:
i. $1 t$ was a cheap option here, because a continuous household survey was already underway and highly. skilled staff were readily available; and
ii. the heavy rate of out-migration and the small total size of the population meant that meaningful results could be derived from a xeiatavely small sample.

As regards employing this approaih in.a cencus. - the "children" method would seem particulariy suitable, as in many countries questions about numbers of surviving and.. dead =hildren are already asked, as is the question on orphanhood, so the only amendments required would be the subdivision of surviving children into resident in the country or abroad, and the classifination of resident, emigrarit and dead children by sex.

TABLES

## TABLE I

Percentage age-distribution of Children for each age-group oí Mother

| Age of Children | Age of Mother |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50-54 | 55-59 | 60-64 | 65-69 | 70-74 | 75+ |
| 0-4 | 100 | 86.3 | 53.3 | 30.6 | 16.2 | 7.5 | 2.5 | . 2 |  |  |  |  |  |
| 5-9 |  | 13.7 | 40.2 | 36.7 | 26.1 | 14.8 | 7.2 | 2.4 | . 2 |  |  |  |  |
| 10-14 |  |  | 6.5 | 28.1 | 30.3 | 24.0 | 14.4 | 7.2 | 2.4 | . 2 |  |  |  |
| 15-19 |  |  |  | 4.6 | 23.5 | 28.1 | 23.4 | 14.3 | 7.2 | 2.4 | . 2 |  |  |
| 20-24 |  |  |  |  | 3.9 | 21.8 | 27.6 | 23.4 | 14.4 | 7.2 | 2.4 | . 2 |  |
| 25-29 |  |  |  |  |  | 3.6 | 21.4 | 27.6 | 23.4 | 14.4 | 7.3 | 2.4 | . 1 |
| 30-34 |  |  |  |  |  |  | 3.5 | 21.4 | 27.6 | 23.5 | 14.5 | 7.3 | 1.2 |
| 35-39 |  |  |  |  |  |  |  | 3.5 | 21.3 | 27.7 | 23.6 | 14.6 | 4.1 |
| 40-44 |  |  |  |  |  |  |  |  | 3.5 | 21.2 | 27.5 | 23.7 | 9.1 |
| 45-49 |  |  |  |  |  |  |  |  |  | 3.4 | 21.1 | 27.5 | 16.5 |
| 50-54 |  |  |  |  |  |  |  |  |  |  | 3.4 | 21.0 | 22.7 |
| 55-59 |  |  |  |  |  |  |  |  |  |  |  | 3.3 | 23.1 |
| 60-64 |  |  |  |  |  |  |  |  |  |  |  |  | 14.7 |
| 65-69 |  |  |  |  |  |  |  |  |  |  |  |  | 6.6 |
| 70-74 |  | , |  |  |  |  |  |  |  |  |  |  | 1.8 |
| 75+ |  |  |  |  |  |  |  |  |  |  |  |  | . 1 |

-18-

TABLE II
Percentage age-distribution of Mothers
(in absence of mortality) for each
age-group of Child

| "Would be" Mothers age | Age of Child |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-2.9 | 30-34 | 35-39 | 40-44 | 45-49 | 50-54 | 55-59 60+ |
| 15-19 | 3.7 |  |  |  |  |  |  |  |  |  |  |  |
| 20-24 | 21.5 | 3.7 |  |  |  |  | 1 |  |  |  |  |  |
| 25-29 | 27.3 | 21.5 | 3.7 |  |  |  |  |  |  |  |  |  |
| 30-34 | 23.3 | 27.3 | 21.5 | 3.7 |  |  |  |  |  |  |  |  |
| 35-39 | 14.5 | 23.3 | 27.3 | 21.5 | 3.7 |  |  |  |  |  |  |  |
| 40-44 | 7.1 | 14.5 | 23.3 | 27.3 | 21.5 | 3.7 | - |  | ; |  |  |  |
| 45-49 | 2.4 | 2.1 | 14.5 | 23.3 | 27.3 | 21.5 | 3.7 |  |  |  |  |  |
| 50-54 | . 2 | 2.4 | 7.1 | 14.5 | 23.3 | 27.3 | 21.5 | 3.7 | ' |  |  |  |
| 55-59 |  | . 2 | 2.4 | 7.1 | 14.5 | 23.3 | 27.3 | 21.5 | 3.7 |  |  |  |
| 60-64 |  |  | . 2 | 2.4 | 7.1 | 1.14 .5 | $23: 3$ | 27.3 | 21.5 | 3.7 |  |  |
| 65-69 |  |  | . . | . 2 | 2.4 | 7.1 | 14.5 | 23.3 | 27.3 | 21.5 | 3.7 |  |
| 70-24 |  |  |  |  | . 2 | 2.4 | 7.1 | 14.5 | 23.3 | 27.3 | 21.5 | 3.7 |
| $75+$ |  |  |  |  |  | . 2 | 2.6 | 9.7 | 24.2 | 47.5 | 74.8 | 96.3100 .0 |

TABLE 1il
Barbadoz-gシ: femaies by age-groun, with number:
of Chiden bitel sex surviva anc Restance

| Age- <br> Group | sumber of Wocien | $\begin{aligned} & \text { Baving in } \\ & \text { Baibados } \end{aligned}$ | Sons |  |  | Taughiers |  |  |  | Children |  |  |  | Mean Ch:ldren <br> Ever <br> Born | ```Prop- grition of Child ren Surv ing``` |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | living, abroad | $\begin{gathered} \text { Wh: have } \\ \text { DLea. } \end{gathered}$ | riselt Sonc | $\begin{gathered} \text { Living } \\ 1 \pi \\ \text { Barbactos } \end{gathered}$ | $\begin{aligned} & \text { Living } \\ & \text { Abroad } \end{aligned}$ | Who have Died | Total <br> Daughters | Auvitep in Barbsdus | Livieg <br> Abroad | Who have Dred | Tocal Children |  |  |
| 15-19 | 639 | 54 | 0 | 0 | 54 | 31 | 0 | 0 | 31 | 85 | 0 | 0 | 85 | . 13 | 1.0 |
| 20-24 | 673 | 212 | 4 | 3 | 219 | 178 | 2 | 1. | 181 | 390 | 6 | 4 | 400 | . 59 | . 990 |
| 25-29 | 522 | 381 | 10 | 4 | 395 | 346 | 4 | 1. | 351 | 727 | 14 | 5 | 746 | 1.43 | . 993 |
| 30-34 | 410 | 404 | 23 | 8 | 435 | 442 | 16 | 9 | 467 | 846 | 39 | 17 | 902 | 2.20 | . 981 |
| 35-39 | 266 | 388 | 13 | 8 | 409 | 379 | 1.7 | 7 | 403 | 767 | 30 | 15 | 812 | 3.05 | . 982 |
| 40-44 | 265 | 463 | 28 | 18 | 509 | 445 | 39 | 17 | 501 | 908 | 67 | 35 | 1010 | 3.81 | . 965 |
| 45-49 | 276 | 544 | 67 | 30 | 641 | 498 | 71 | 27 | 596 | 1042 | 138 | 57 | 1237 | 4.48 | . 954 |
| 50-54. | 297 | 490 | 93 | 37 | 620 | 502 | 105 | 27 | 634 | 992 | 198 | 64 | 1254 | 4.22 | . 949 |
| 55-59 | 273 | 381 | 135 | 58 | 574 | 334 | 114 | 42 | 490 | 715 | 249 | 100 | 1064 | 3.90 | . 906 |
| 60-64 | 236 | 256 | 156 | 76 | 488 | 277 | 165 | 58 | 500 | 533 | 321 | 134 | 988 | 4.20 | . 864 |
| 65-69 | 263 | $\cdots$ | 194 | 62 | 46 ) | 24 i | 1\% | 5! | 468 | 466 | 370 | 113 | 949 | 3.61 | . 881 |
| 70-74 | 221 | 157 | 180 | 74 | 411 | 193 | 168 | 58 | 419 | 350 | 348 | 1.32 | 830 | 3.76 | . 841 |
| $75+$ | 323 | 245 | 233 | 122 | 600 | 243 | 203 | 93 | 539 | 488 | 436 | 215 | 1139 | 3.53 | . 811 |
| rotal | 4664 | 4200 | 11.36 | 500 | 5836 | 4109 | 1080 | 391 | 5580 | 8309 | 2216 | 891 | 11416 | 2.45 |  |

TABLE IV
Discriburion of Emigrant Sons by age, derived from
coral Emigrant Sons reported by Mothers

| Age ofSons | Age of Mother |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50-54 | 55-59 | 60-64 | 65-69 | 70-74 | $75+$ | Total |
| 0-4 | 0 | 3 | 5 | 7 | 2 | 2 | 2 | 0 |  |  |  |  |  | 21 |
| 5-9 |  | 1 | 4 | 8 | 3 | 4 | 5 | 2 | 0 |  |  |  |  | 27 |
| 10-14 |  |  | 1 | 7 | 4 | 7 | 10 | 7 | 3 | 0 |  |  |  | 39 |
| 15-19 |  |  |  | 1 | 3 | 9 | 16 | 13 | 10 | 4 | 0 |  |  | 56 |
| 20-24 |  |  |  |  | 1 | 6 | 18 | 22 | 19 | 11 | 5 | 0 |  | 82 |
| 25-29 |  |  |  |  |  | 1 | 14 | 26 | 32 | 22. | 14 | 4 | 0 | 113 |
| 30-34 |  |  |  |  |  |  | 2 | 20 | 37 | 37 | 28 | 13 | 3 | 140 |
| 35-39 |  |  |  |  |  |  |  | 3 | 29 | 44 | 46 | 26 | 10 | 158 |
| 40-44 |  |  |  |  |  |  |  |  | 5 | 33 | 53 | 42 | 21 | 154 |
| 45-49 |  |  |  |  |  |  | \% |  |  | 5 | 41 | 51 | 38 | 135 |
| 50-54 |  |  |  |  |  |  |  |  |  |  | 7 | 38 | 53 | 98 |
| 55-59 |  |  |  |  |  |  |  |  |  |  |  | 6 | 55 | 61 |
| 60-64 |  |  |  |  |  |  |  |  |  |  |  |  | 34 | 34 |
| 65-69 |  |  |  |  |  |  |  |  |  |  |  |  | 15 | 15 |
| 70-74 |  |  |  |  |  |  |  |  |  |  |  |  | 4 | 4 |
| 75+ |  |  |  |  |  |  |  |  |  |  |  |  | 0 | 0 |
| Reported |  |  |  | - |  |  |  |  |  |  |  |  |  |  |
| Totals | 0 | 4 | 10 | 23 | 13 | 28 | 67 | 93 | 135 | 156 | 194 | 180 | 233 | 1136 |

TABLE V
Distribution of Emigrant Daughters by age derived from
rotal Emigrant Daughters reported by Mothers

| Age of Daughrers | Age of |  |  |  |  |  | Mother |  | 55-59 | 60-64 | $65-69$ | 70-74 | $35+$ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50-54 |  |  |  |  |  |  |
| 0-4 | 0 | 2 | 2 | 5 | 3 | 3 | 2 | 0 |  |  |  |  |  | 17 |
| 5-9 |  | 0 | 2 | 6 | 4 | 6 | 5 | 3 | 0 |  |  |  |  | 26 |
| 10-14 |  |  | 0 | 4 | 5 | 9 | 10 | 8 | 3 | 0 |  |  |  | 39 |
| 15-19 |  |  |  | 1 | 4 | 11 | 17 | 15 | 8 | 4 | 0 |  |  | 60 |
| 20-24 |  |  |  |  | 1 | 9 | 19 | 25 | 16 | 12 | 4 | 0 |  | 86 |
| 25-29 |  |  |  |  |  | 1 | 15 | 28 | 27 | 24 | 13 | 4 | 0 | 112 |
| 30-34 |  |  |  |  |  |  | 3 | 22 | 32 | 39 | 26 | 12 | 2 | 136 |
| 35-39 |  |  |  |  |  |  |  | 4 | 24 | 45 | 42 | 25 | 8 | 148 |
| 40-44 |  |  |  |  |  |  |  |  | 4 | 35 | 48 | 40 | 19 | 146 |
| 45-49 |  |  |  |  |  |  |  |  |  | 6 | 37 | 46 | 34 | 123 |
| 50-54 |  |  |  |  |  |  |  |  |  |  | 6 | 35 | 46 | 87 |
| 55-59 |  |  |  |  |  |  |  |  |  |  |  | 6 | 47 | 53 |
| 60-64 |  |  |  |  |  |  |  |  |  |  |  |  | 30 | 30 |
| 65-69 |  |  | : |  |  |  |  |  |  |  |  |  | 13 | 13 |
| 70-74 |  |  |  |  |  |  |  |  |  |  |  |  | 4 | 4 |
| 75+ |  |  |  |  |  |  |  |  |  |  |  |  | 0 | 0 |
| Reported Totals | 0 | 2 | 4 | 16 | 17 | 39 | 71 | 105 | 114 | 165 | 176 | 168 | 203 | 1080 |

TABLE VI
Barbados-born Respondents by age-group and Survival/Residence of Mother

| Age <br> G:oup | Mother <br> living in <br> Barbados | Mother <br> living <br> abroad | Mother <br> dead | Total | Proportion <br> with Mother <br> Resident | Smoothed <br> Proportions |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| $0-4$ | 990 | 4 | 7 | 1001 | .989 | .985 |
| $5-9$ | 1170 | 38 | 14 | 1222 | .957 | .967 |
| $10-14$ | 1169 | 39 | 28 | 1236 | .946 | .946 |
| $15-19$ | 1235 | 56 | 48 | 1339 | .922 | .910 |
| $20-24$ | 1152 | 97 | 75 | 1324 | .870 | .878 |
| $25-29$ | 841 | 87 | 68 | 996 | .844 | .831 |
| $30-34$ | 593 | 54 | 106 | 753 | .788 | .784 |
| $35-39$ | 369 | 23 | 135 | 527 | .700 | .720 |
| $40-44$ | 329 | 23 | 132 | 486 | .677 | .645 |
| $45-49$ | 250 | 7 | 209 | 466 | .536 | .536 |
| $50-54$ | 190 | 7 | 310 | 507 | .375 | .375 |
| $55-59$ | 101 | 7 | 349 | 457 | .221 | .210 |
| $60-64$ | 53 | 4 | 404 | 461 | .115 | .115 |
| $65-69$ | 17 | 1 | 441 | 459 | .037 | .060 |
| $70-74$ | 7 | 1 | 381 | 389 | 3 | .021 |
| $75+$ | 12 | 3 | 493 | 508 |  | .020 |
| Total | 8478 | 451 | 3202 | 12131 |  |  |

TABLE U［1

| 062 | $\chi^{\text {A }}$ 觡 Group | $6^{6} \text { ofpot Tecte } 1$ | Enigratrox ; | reporimed | 9的碞 | A8¢ | 9996？ | B 4 Qrad | On PE－5 | dens | Em1 | catay | age |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $8 \cdot 08$ | 8Enflgrant．s |  | Sots | Daughtess | 998.3 | Femaie | puz | Male | Female ${ }^{7}$ |  | $\mathrm{OzO}^{\text {MaLe }}$ |  | Total |
| 705 | ごS力 | T＇9fothers 7 | を92 | 96 T | L9\％ | －T2 | 052 | ET | ST |  | $090^{\circ}$ | 69－59 |  |
| －75 |  | 8＇9．9985 197 | $21^{982}$ | 527 | ${ }_{4} 51$ | 197 | 9638 | 508 | 493 b | 1001 | ${ }^{\text {STT }} 4.0$ | $79-09$ 3.3 | 3.7 |
| §．${ }^{\circ} ¢$ | 1－909 | T＇1．9967 657 | 2767 | ${ }_{5} 81$ | 2 C | $35_{2}{ }^{2}$ | ${ }^{06} 5$ | ¢56 | $616^{\text {79 }}$ |  | $\mathrm{OTZ}_{4.4}$ | 65－55 | 4.3 |
| ع．67 | $\mathrm{frO}_{6} 6 \pm 4$ | $7.5 .9946 L 05$ | 39462 | O， 36 | ¢6． | 2¢号 | 182 | 688 | $616^{86}$ |  | ${ }^{\text {¢ } 2 \varepsilon^{\circ}} 6.2$ | $75-05$ | 6.2 |
| 8.05 | 75－59 | 6．9．9910997 | $56^{5 / 2}$ | $66^{7}$ | T8\％ | 「ごる | द28 | 921 | $638^{581}$ | 1339 | ${ }^{985} 8.1$ | $67-¢ 7$ 9.4 | 8.7 |
| 6.87 | 0208124 | 0＇2．9878987 | $82^{592}$ | 88 | 593 | 968 | 6\}, | $69 \mathrm{I}^{1}$ | $673^{75 T}$ | 1324 | ${ }_{5}{ }^{7} 9^{\circ} 2.5$ | ワグ－07 12.7 | 12.6 |
| 9＊ワ7 | $99^{25} 5$ | $9 \times 5.831<2 S$ | 113992 | 1122 | 5736 | 935 | 6271 | $47{ }^{1}$ | $522^{85 T}$ | 996 | ${ }^{022} 22.3$ | $6 \varepsilon-58$ 20.5 | 21.4 |
| 8＊ 1 ¢ | 13020234 |  | 140607 | 136 | 558 | \＆ 53 |  | $3{ }^{9} 4$ | $409{ }^{\text {07］}}$ | 153 | $78 L_{34.1}$ | ワ¢－0．7 | 31.8 |
| がして | 53920 | £＇そ720966 | 158275 | 1487 | 215 | ${ }_{2}^{505}$ | 925 | $2 \% 15$ | $266{ }^{\text {ETI }}$ | 527 | TE8．${ }^{\circ} 5$ | $62-58$ 43.6 | 44.6 |
| 9．2T | 40274 | ¢． 2545 クZ\＆ | $1548 \angle 9$ | 1469 | 235 | 226 | $\xi_{465}$ | 229 | $265{ }^{78}$ |  | 868＇ 2,0 | $7 \mathrm{7}-02$ | 48.9 |
| L＇8 | 4＊56－49 | 1．8536 6とを | $135^{869}$ | 1262 | 235 | 229 | 381 | 199 | 27595 |  | ${ }^{0} 5^{\circ}{ }^{\circ} 6.9$ | $6 T-57$ | 50.8 |
| 2．9 | 60954 | て．9．375 9\＆てT | $98^{979}$ | 879 | 281 | 232 | 493 | 298 | $297{ }^{68}$ | 507 | 976 5 5．4 | $7 \mathrm{~T}-019$ | 49.3 |
| $\varepsilon \cdot \square$ | 55259 |  | 61919 | 389 | 250 | 232 | $8{ }^{8} 2$ | 185 | $212^{62}$ |  | 2960．1 | ${ }^{6}{ }_{48.1}$ | 54.3 |
| $\iota^{\prime} \varepsilon$ | 80864 | 0 ？${ }^{\text {？}} 115$ 7001 | $34^{\text {¢ 6\％}}$ | 885 | 296 | 261 | 55， | 225 | $236{ }^{17}$ |  | 586\％ 56 |  | 54.7 |
|  | 65－69 | ． 060 | 15 | 13 | 250 | 21.7 | 467 | 196 | 263 | 4590 | 4796．1 | 45.2 | 50.4 |
| 1810．L |  |  | $8^{\text {temaj }}$ | aty | $1208{ }^{1}$ | 3：4083 | ${ }^{2} 500$ | s:0249414 |  |  |  | vexisw | 30.8 |
|  |  |  |  |  |  | － $23 \overline{8} \overline{0} 0{ }^{\text {a }}$ |  |  | $58988^{814}$ | 12431 | 11090： | dnexj2mis | 290 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

TABLE VIIL
Barbados-born Respondents by age-group, with Weighted $/$
Numbers of Siblings by their Sex, Residence and Survival

| Age Group | Number of Respondents | Brothers <br> living in <br> Barbados | Brothers <br> living abroad | Brothers who have died | Total <br> Brothers | Sisters <br> living in <br> Barbados | Sisters <br> living <br> abroad | Sisters who have died | Total <br> Sisters |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0-4 | 1001 | 521 | 16 | 6 | 543 | 483 | 12 | 4 | 499 |
| 5-9 | 1222 | 624 | 28 | 9 | 661 | 607 | 16 | 5 | 628 |
| 10-14 | 1236 | 621 | 40 | 16 | 676 | 632 | 43 | 15 | 690 |
| 15-19 | 1339 | 702 | 94 | 29 | 825 | 657 | 111 | 27 | 795 |
| 20-24 | 1324 | 687 | 151 | 48 | 886 | 655 | 181 | 44 | 879 |
| 25-29 | 996 | 505 | 202 | 47 | 754 | 503 | - 220 | 45 | 769 |
| 30-34 | 753 | 375 | 200 | 46 | 621 | 384 | 197 | 35 | 615 |
| 35-39 | 527 | 266 | 147 | 25 | 438 | 264 | 148 | 25 | 437 |
| 40-44 | 486 | 229 | 154 | 45 | 427 | 260 | 155 | 24 | 438 |
| 45-49 | 466 | 216 | 153 | 41 | 409 | 251 | 134 | 38 | 423 |
| 50-54 | 507 | 236 | 191 | 71 | 498 | 272 | 176 | 69 | 517 |
| 55-59 | 457 | 202 | 159 | 81 | 442 | 256 | 135 | 62 | 452 |
| 60-64 | 461 | 217 | 184 | 121 | 522 | 245 | 139 | 84 | 468 |
| 65-69 | 459 | 204 | 179 | 134 | 517 | 255 | 162 | 113 | 530 |
| 70-74 | 389 | 169 | 199. | 154 | 522 | 320 | 191 | 144 | 555 |
| 75+ | 508 | 195 | 414 | 381 | 989 | 313 | 386 | 358 | 1057 |
| Total | 12131 | 5967 | 2510 | 1253 | 9730 | 6258. | 2406 | 1091 | 9754 |

1/ Any discrepancies in marginal totals are due to rounding to nearest integer values.

## TABLE IX

Children living abroad by age-group of Mothers, reported by all Mothers and Mothers with Resident Children

| Mother's <br> Age-Group | Children living abroad <br> Total | With Resident <br> Siblings | Ratio <br> (a/b) | Smoothed <br> ratios |
| :--- | :---: | :---: | :--- | :--- |
| $15-19$ | 0 | 0 | - | 1.68 |
| $20-24$ | 6 | 2 | 3.0 | 1.57 |
| $25-29$ | 14 | 11 | 1.27 | 1.44 |
| $30-34$ | 39 | 26 | 1.5 | 1.31 |
| $35-39$ | 30 | 25 | 1.2 | 1.17 |
| $40-44$ | 67 | 65 | 1.03 | 1.08 |
| $45-49$ | 138 | 133 | 1.04 | $1: 11$ |
| $55-59$ | 249 | 201 | 1.24 | 1.14 |
| $60-64$ | 321 | 282 | 1.14 | 1.19 |
| $65-69$ | 370 | 310 | 1.19 | 1.26 |
| $70-74$ | 348 | 233 | 1.49 | 1.34 |
| $75+$ | 436 | 317 | 1.38 | 1.45 |
| Total | 2217 | 1779 | 1.25 |  |

TABLE X
Distributions of Emigrant Brorhers by "would be" Age of Mother, derived from Emigrant Brothers

Classiffied by age of Respondent

| "Would be" age of Mother | 0-4 | 5-9 | 10-14 | 15-19 | $\begin{gathered} \text { Age } \\ 20-24 \end{gathered}$ | of Res $25-29$ | pondent $30-34$ | $\begin{aligned} & \text { Siblit } \\ & 35-39 \end{aligned}$ | ng $40-44$ | 45-49 | 50-54 | 55-59 | $60+$ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15-19 | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| 20-24 | 3 | 1 |  |  |  |  |  |  |  |  |  |  |  | 4 |
| 25-29 | 5 | 6 | 1 |  |  |  |  |  |  |  |  |  |  | 12 |
| 30-34 | 4 | 8 | 9 | 3 |  |  |  |  |  |  |  |  |  | 24 |
| 35-39 | 2 | 6 | 11 | 20 | 6 |  |  |  |  |  |  |  |  | 45 |
| 40-44 | 1 | 4 | 9 | 26 | 32 | 7 |  |  |  |  |  |  |  | 79 |
| 45-49 | 0 | 2 | 6 | 22 | 41 | 44 | 7 |  |  |  |  |  |  | 122 |
| 50-54 | 0 | 1 | 3 | 14 | 35 | 55 | 43 | 5 |  |  |  |  |  | 156 |
| 55-59 |  | 0 | 1 | 7 | 22 | 47 | 55 | 32 | 6 |  |  |  |  | 170 |
| 60-64 |  |  | 0 | 2 | 11 | 29 | 47 | 41 | 33 | 6 |  |  |  | 169 |
| 65-69 |  |  |  | 0 | 4 | 14 | 29 | 34 | 42 | 33 | 7 |  |  | 163 |
| $\begin{aligned} & 70-74 \\ & 75+7 \\ & \text { Reported } \end{aligned}$ |  |  |  |  | 0 | $\begin{aligned} & 5 \\ & 1 \end{aligned}$ | $\begin{array}{r} 14 \\ 5 \end{array}$ | $\begin{aligned} & 21 \\ & 14 \end{aligned}$ | $\begin{array}{r} 36 \\ 37 \end{array}$ | $\begin{aligned} & 42 \\ & 72 \end{aligned}$ | $\begin{array}{r} 41 \\ 143 \end{array}$ | $153$ | 976 | $\begin{array}{r} 65 \\ 1401 \end{array}$ |
| Totals | 16 | 28 | 40 | 94 | 151 | 202 | 200 | 147 | 154 | 153 | 191 | 159 | 976 | 2510 |

TABLE XI
Distribution of Emigragt. Siscers by "woid be" Age of Mother, derlved from Emigrant sisters viassitied oy age or

Respondent Sibling

| "Would be" age of Mor.her | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | Age of 25-29 | Respo <br> 30-34 | ndent $35-39$ | $\begin{gathered} \text { Sib1ing } \\ 40-44 \end{gathered}$ | 45-49 | 50-54 | 55-59 | 60+ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15-19 | 0 |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 20-24 | 3 | 1 |  |  |  |  |  |  |  |  |  |  |  | 4 |
| 25-29 | 3 | 3 | 2 |  |  |  |  |  |  |  |  |  |  | 8 |
| 30-34 | 3 | 5 | 9 | 4 |  |  |  |  |  |  |  |  |  | 21 |
| 35-39 | 2 | 4 | 12 | 24 | 7 |  |  |  |  |  |  |  |  | 49 |
| 40-44 | 1 | 2 | 10 | 30 | 39 | 8 |  |  |  |  |  |  |  | 90 |
| 45-49 | 0 | 1 | 6 | 26 | 50 | 47 | 7 |  |  |  |  |  |  | $\therefore 37$ |
| 50-54 | 0 | 0 | 3 | 16 | 42 | 60 | 42 | 5 |  |  |  |  |  | 168 |
| 55-59 |  | 0 | 1 | 8 | 26 | 51 | 54 | 32 | 6 |  |  |  |  | 178 |
| 60-64 |  |  | 0 | 3 | 13 | 32 | 46 | 41 | 33 | 5 |  |  |  | 173 |
| 65-69 |  |  |  | 0 | 4 | 16 | 29 | 35 | 42 | 29 | 7 |  |  | 162 |
| 70-74 |  |  |  |  | 0 | 6 | 14 | 21 | 36 | 37 | 38 | 5 |  | 157 |
| 75+ |  |  |  |  |  | 0 | 5 | 14 | 38 | 63 | 131 | 130 | 878 | 1259 |
| Reported Totals | 12 | 16 | 43 | 1.11 | 181 | 220 | 197 | 148 | 155 | 134 | 176 | 135 | 878 | 2406 |

TABLE XII
Adjustment of Emigrant Siblings.by "would be" age of Mother for whole Family Emigration

| "Would be" <br> age of <br> Mother | (Siblings <br> abroad) | (Siblings. <br> abroad <br> with <br> Resident <br> Sibling) |  |  | Reported Emigrants |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1.68 |  |  | Adjusted Emigrants |  |  |
|  | 1.57 | 1 | 0 | Brothers | Sisters |  |

TABLE XIII
Distribution of Emigrant Brothers by age, derived from Adjusted Emigrant Brothers classified by "would be"
age of Mother


TABLE XIV
Distribution of Emigrant Sisters by age, derived from adjusted Emigrant Sisters, classified by "would be" age of Mother


TABLE XV
Emigrants estimated from Sibling reports as a Percentage of (Emigrant and Resident)

Population by age

| Age <br> Group | Males |  |  | Females |  |  | Both Sexes |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Residents | Emigrants | $\frac{e}{r+e}$ | Residents | Emigrants | $\frac{e}{v+e}$ | Residencs | Emigrants | $\frac{e}{v+8}$ |
| 0-4 | 508 | 44 | 8.0 | 493 | 40 | 7.5 | 1001 | 84 | 7.7 |
| 5-9 | 606 | 59 | 8.9 | 616 | 59 | 8.7 | 1222 | 118 | 8.8 |
| 10-14 | 620 | 83 | 11.8 | 616 | 90 | 12.7 | 1236 | 173 | 12.3 |
| 15-19 | 701 | 113 | 13.9 | 638 | 124 | 16.3 | 1339 | 237 | 15.0 |
| 20-24 | 651 | 144 | 18.1 | 673 | 157 | 18.9 | 1324 | 301 | 18.5 |
| 25-29 | 474 | 176 | 27.1 | 522 | 186 | 26.3 | 996 | 362 | 26.7 |
| 30-34 | 344 | 213 | 38.2 | 409 | 216 | 34.6 | 753 | 429 | 36.3 |
| 35-39 | 261 | 266 | 50.5 | 266 | 261 | 49.5 | 527 | 527 | 50.0 |
| 40-44 | 221 | 345 | 61.0 | 265 | 3233 | 54.9 | 486 | 668 | 57.9 |
| 45-49 | 191 | 447 | 70.1 | 275 | 409 | 59.8 | 466 | 856 | 64.8 |
| 50-54 | 210 | 514 | 71.0 | 297 | 466 | 61.1 | 507 | 980 | 65.9 |
| 55-59 | 185 | 476 | 72.0 | 272 | 428 | 61.1 | 457 | 904 | 66.4 |
| 60-64 | 225 | 299 | 57.1 | 236 | 268 | 53.2 | 461 | 567 | 55.2 |
| 65-69 | 196 | 134 | 40.6 | 263 | 121 | 31.5 | 459 | 255 | 35.7 |
| 70+ | 352 | 39 | 10.0 | 545 | 35 | 60 | 897 | 74 | 7.6 |
| Tocal | 5745 | 3352 | 38.2 | 6386 | 3183 | 33.3 | 12131 | 6535 | 35.0 |

TABLE XVI
Estimating the Age Distribution of Current Emigrants

| Age Group | MALES |  |  | FEmales |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Smoothed \% <br> Emigrants | $\begin{aligned} & \text { Implied } \\ & \text { Acitaxi } \\ & \text { Migration } \\ & \text { rate (\%) } \end{aligned}$ | Expected Current Emigrants | Smoothed \% <br> Emigrants | Implied <br> Annual <br> Migration <br> rate (\%) | Expected <br> Current <br> Emigrants |
| 0-4 | 5.9 | . 11 | 1 | 5.4 | . 10 | 1 |
| 5-9 | 6.6 | . 32 | 2 | 6.9 | . 43 | 3 |
| 10-14 | 8.4 | . 44 | 3 | 9.0 | . 55 | 3 |
| 15-19 | 11.0 | . 79 | 6 | 12.4 | . 91 | 6 |
| 20-24 | 15.3 | 1.65 | 11 | 17.1 | 1.33 | 9 |
| 25-29 | 24.7 | 2.65 | 13 | 23.4 | 1.96 | 10 |
| 30-34 | 36.2 | 3.38 | 12 | 32.2 | 2.79 | 11 |
| 35-39 | 48.0 | 4.04 | 11 | 41.1 | 2.54 | 7 |
| 40-44 | 57.3 | 3.53 | 8 | 47.4 | 2.10 | 6 |
| 45-49 | 63.5 | 2.47 | 5 | 52.3 | 1.68 | 5 |
| 50-54 | 66.4 | 1.19 | 3 | 55.0 | . 89 | 3 |
| Total |  |  | 75 |  |  | 64 |

## TABLE XVIII

Comparison of Reporting by Mothers and Siblings

| Categories being Compared |  | Repores of: |  |  | Reports of: |  |  | Reports of: |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | a | b | Ratio | c | d | Ratio | e | $\dot{\text { I }}$ | RET20 |
|  |  | Mothers with | $\begin{aligned} & \text { Siblings } \\ & \text { with } \end{aligned}$ | r,jos | Mothers with | Brothers with | $c / d$ | Mochers with | Sisters <br> with | $e / f$ |
|  |  | Resident | Resident |  | Resident | Resident |  | Resident | Resident |  |
|  |  | Children | Mothers |  | Sons | Mothers |  | Daughters | Mothers |  |
| Resident | Total Mothers | 2693 | 2935 | . 92 | 2061 | 2139 | . 96 | 2089 | 2307 | . 91 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | (Sons/ <br> (Brothers <br> (Daughters) | , 4200 | 4286 | . 98 | 4200 | 4132 | 1.02 | 3217 | 3366 | - 96 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  | (Sisters | 4109 | 4277 | . 96 | 3134 | 2995 | 1.05 | 4109 | (4346) | . 95 |
|  | (Children/ (Siblings | 8309 | (8478) | . 98 | 7334 | 7127 | 1.03 | 7326 | 7712 | . 95 |
| Abro- <br> ad | (Sons/ |  |  |  |  |  |  |  |  |  |
|  | (Brothers (Daughters/ | , 890 | 916 | . 97 | 679 | 602 | 1.13 | 759 | 810 | . 94 |
|  | (Sisters | 889 | 898 | . 99 | 692 | 619 | 1,12 | 733 | 764 | . 96 |
|  | (Children/ |  |  |  |  |  |  |  |  |  |
|  | (Siblings | 1779 | 1814 | . 99 | 1371 | 1221 | 1.12 | 1492 | 1574 | . 96 |
| Dead | (Sons) |  |  |  |  |  |  |  |  |  |
|  | (Brothers | 385 | 309 | 1.26 | 296 | 194 | 1.53 | 345 | 300 | 1.15 |
|  | (Daughters/ |  |  |  |  |  |  |  |  |  |
|  | (Sisters | 317 | 262 | 1.21 | 248 | 170 | 1.46 | 280 | 241 | 1.16 |
|  | (Children/ |  |  |  |  |  |  |  |  |  |
|  | (Siblings | 702 | 571 | 1.23 | 544 | 364 | 1.49 | 625 | 541 | 1.15 |
| Total | (Sons) |  |  |  |  |  |  |  |  |  |
|  | (Brorhers <br> (Daughters) | 5475 | 5510 | . 99 | 5175 | 4928 | 1.05 | 432.1 | 4476 | . 97 |
|  |  |  |  |  |  |  |  |  |  |  |
|  | (Sistets | 5315 | 5436 | . 98 | 4074 | 3783 | 1.08 | 5122 | 5351 | 96 |
|  | (Children)(Siblings |  |  |  |  |  |  |  |  |  |
|  |  | 10790 | 10946 | . 99 | 9249 | 8111 | 1,06 | 9443 | 9827 | . 96 |

TABLE XIX
Comparison of Reports on Number of Families with at least One Resident Sibling of each Sex

| Respondent's Mother | Derived from Reports of: |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Males | Females | Both Sexes | (Mothers) |
| Living in Barbados | 1439 | 1566 | 1498 | 1457 |
| Abroad or Dead | 569 | 657 | 607 | - |
| Al1 Respondents | 2007 | 2221 | 2105 | - |

## TABLE XX

$\frac{\text { Percenrage diertibution of Families by Number and }}{\text { Sex ot Resident Siblings from Reporis of }}$ Sex of Resident Siblings, from Reports of

Mothers and Siblings

| Famılies wirh: | Distribution by Number of Resident: | Reported by: | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | $9+$ | Total <br> Number <br> of <br> Families |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resident | Sons | Mothers | 23.5 | 35.2 | 21.0 | 10.2 | 5.5 | 2.8 | 1.0 | 0.5 | 0.2 | 0.1 | 2693 |
| Mother and |  | Siblings. | 25.2 | 37.2 | 19.7 | 9.2 | 4.7 | 2.5 | 0.8 | 0.4 | 0.1 | 0.1 | 2935 |
| Children | Daughters | Mothers | 22.4 | 37.3 | 21.3 | 9.8 | 5.3 | 2.2 | 1.0 | 0.4 | 0.2 | 0.1 | 2693 |
|  |  | Siblings | 23.9 | 38.9 | 19.6 | 9.7 | 4.6 | 2.0 | 0.8 | 0.3 | 0.1 | 0.1 | 2935 |
|  | Children | Mothers | - | 28.1 | 23.7 | 15.2 | 11.4 | 7.4 | 5.2 | 3.8 | 2.2 | 3.0 | 2693 |
|  |  | Siblings | - | 31.8 | 24.2 | 14.8 | 10.3 | 6.8 | 4.4 | 3.3 | 1.9 | 2.5 | 2935 |
| Resident | Sons | Mothers | - | 45.9 | 27.4 | 13.4 | 7.2 | 3.7 | 1.3 | 0.6 | 0.3 | 0.1 | 206.1 |
| Mother and |  | Brothers | - | 49.8 | 26.5 | 12.3 | 6.3 | 3.2 | 1.2 | 0.4 | 0.2 | 0.1 | 2139 |
| Sons | Daughters | Mothers | 29.3 | 29.4 | 19.9 | 10.9 | 5.8 | 2.8 | 1.2 | 0.4 | 0.2 | 0.1 | 2061 |
|  |  | Brothers | 32.7 | 29.3 | 18.6 | 10.7 | 4.7 | 2.2 | 0.9 | 0.5 | 0.2 | 0.1 | 2139 |
|  | Children | Mothers. | - | 17.4 | 23.0 | 17.9 | $13.8$ | $9.6$ | 6.7 | 4.9 | 2.8 | 3.9 | 2061 |
|  |  | Brothers | - | 20.2 | 24.5 | 17.8 | 12.4 | 8.6 | 5.8 | 4.7 | 2.7 | 3.2 | 2139 |
| Resident | Sons | Mothers | 30.3 | 28.2 | 19.3 | 10.6 | 6.3 | 3.2 | l. 2 | 0.6 | 0.2 | 0.1 | 2089 |
| Mother and |  | Sisters | 32.1 | 28.8 | 18.4 | 9.3 | 6.4 | 3.2 | 0.9 | 0.7 | 01 | 0.1 | 2307 |
| Daughters | Daughters | Mothers | - | 48.1 | 27.5 | 12.6 | 6.8 | 2.9 | 1.2 | 0.5 | 02 | 0.1 | 2089 |
|  |  | ststers | - | 51.7 | 25.4 | 12.6 | 6.0 | 2.5 | 1,1 | 0.4 | 0.2 | 0.1 | 2307 |
|  | Children | Mochers | - | 19.1 | 22.8 | 16.9 | 13.9 | 9.1 | 6.7 | 4.9 | 2.7 | 3.8 | 2089 |
|  |  | Sisters | - | 21.2 | 23.9 | 16.7 | 13.1 | 9.1 | 5.8 | 4.3 | 2.6 | 33 | 2307 |

## TABLE XXI

Observed and Expected Numbers of Respondents by
Sex and by Number of Resident same - Sex
Siblings, Derived from Reports of Number
of Resident, Opposite + Sex Siblings


FIGURES

FIGURE (i)
Lipetable survivorship values Gy age


## BlGuRE (ii)

Relative age specific fertility rates


FGURE (ii)
Emigrents by agegroup, as a percentiage of Cresidents 4emigrantaj - bosed on mother'z reforts

FlGuRE (iv)

Emigrontg by age growp, as a percantaga of(resisonig qemigrants) $\therefore$ based en sitirg reperta

ade gran $\theta$.

GGGAE (v)
Whem of cmigrants bu ae greup stimotor fren veorts of mothore sibings




APPENDIX



MIGRATION SURVEY :
CODE EIST

Col.(4) Sex

| Code | Sex |
| :---: | :--- |
| 1 | Male |
| 2 | Female |

Col.(5) Age

Code figure shown as a 2-digit code, with leading zeros for children under 10.
Children Under 1 , Code 00
Persons shown as aged 100 or more, code 99 Not Stated code XX.

Col.(6) Marital Status

| Code | Marital Status |  |
| :---: | :--- | :--- |
| 0 | Single | (Si) |
| 1 | Married | (M) |
| 2. | Widowed | (W) |
| 3 | Divorced | (D) |
| 4 | Separated | (Se) |
| X | Not Stated |  |

```
Col.(7) Education
```

| Code | Highest Level Attained |
| :---: | :--- |
| 0 | None or Not Stated |
| 1 | Primary lst - 7th Standard |
| 2 | Secondary |
| 3 | Graduate |
| 4 | Technical/Vocational |
| 5 | Other |

Col. (8) Birthplace

Binthplace
Barbados or Not Stated
Outside Barbados

Cols.(9)-(10) Mother
Code
1
2
$X$

Mother Alive/Mother in Barbados
Yes
No/Not Applicable
Not Stated

Cols.(11)-(18) Brothers and Sisters and Cols.(19)-(26) Children

Code the figure in each column as a single-digit code:
Not Stated code $X$.
If the figure shown in any one column is 10 or more, Code 9. Cols.(19)-(26) for males or females under 15, leave blank.

## LIST OF COMPUTER PRODUCED <br> TABLES FOR <br> BARBADOS -MIGRATION SURVEY



TABLE 5. - Barbados-born population by sex and number of surviving and number of resident same sex siblings.

```
    Part 1 - By age-group of respondent.
    Page 1 - Male reports on brothers.
    Page 2 - Female reports on sisters.
    Page 3 - All.reports on siblings.
    Part 2 - By survival/residence of.respondent's mother.
TABLE 6 - Barbados-born females by age=group, with numbers of children
        by their.sex and residence/survival.
    Part 1.. - All women.
    Part 2 - Women with resident sons,
    Part 3. - Women with resident daughters.
    Part 4 - Wemen with.resident children.
    Part 5 - Women with no resident sons.
    Part 6 -- Women with no resident daughters.
    Part 7 - Women with no.resident children.
TABLE 7 - Barbados-born.females by.age and number of surviving and
    resident.children, and.by sex of the children.
Part 1 - Sons
Part.2... - Daughters
Part 3. - Children
```

TABLE 8; Part 1 - Barbados-born population by.sex and by number of resident brothers and sisters.


TABLE 8, Part 2 Families of Barbados-bron respondents, by respondent's sex and number of resident brothers and sisters.

```
    Section 1 - All families. \ 3 pages in each section:
    Section 2 - Families wlth mother Page 1 - Families of male respondents,
        living in Barbados.
    Section 3 - Families with mother
        abroad or dead.
        Page 2 - Families of female respondents.
        Page 3 - All families.
TABLE 9 - Barbados-born females.by age and number and sex of
        children ever bora/children surviving.
    Part 1 - Sons
    Part 2 - Daughters
    Part 3 - Children
TABLE.10. - Female.population by number of resident.sons and number of
    resident daughters.
Part 1 - Barbados-born females.
Part 2 - Foreign-born females.
```


[^0]:    .: ZABA, B 1980 Casibbsin Census - suggestions for an Analytical conmentary - o andei based sn the Barbados 1970 Census.

