ECONOMIC COMMISSION FOR LATIN AMERICA
Subregional Office for the Caribbean

1980 CENSUS OF THE COMMONWEALTH CARIBBEAN

Proposals for Data Analysis

Prepared by
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INTRODUCTION

The following text is a schematized proposal for the analysis of 1980 census data for those countries of the Commonwealth Caribbean which are using the Regional Processing Centre in Barbados to process their data. It is being circulated for comments to members of the working group on data analysis, set up after the 6th Meeting of the Standing Committee of Caribbean Statisticians.

It is proposed that the analytical commentary be centered round a set of derived tables, which present important features of the extensive computer-produced census tables, in an easily digestible form. Each table is described here, with possible extensions which might apply to only a sub-group of countries, and suggested table layouts are presented in an appendix. Data sources for each table are also shown, (References to 1980 data are based on the tabulation plan approved by the 5th Meeting of the Standing Committee of Caribbean Statisticians).

Also included in this plan, is a list of definitions and explanations which will have to be embodied in the text of the analytical commentary, in order to clarify the tables, and point by point suggestions for description of the results shown by the tables. Naturally, the latter will vary somewhat from one country to the next, depending on which features of the tables prove interesting, or need discussing because they contradict or re-inforce results obtained from other parts of the census, or outside data sources.
**BASIC TABLES**

**A1** De Facto census populations by sex, for all census years, with sex ratios, intercensal increase (in absolute numbers and as %), and average intercensal growth rates, per annum.

**A2** De Facto population by major area, broken down by population included in detailed tables, and excluded from detailed tables, showing exclusions as proportion of total.

**A3** De Facto population by type of household (institutional or private) broken down by populations included in/excluded from detailed tables.

**A4** De Facto population by usual residence (this country/abroad) broken down by populations included in/excluded from detailed tables.

**EXTENSIONS**

**SECTION A - INTRODUCTION**

**1980** - Enumerators' visitation records by sex.

**1970** - Volume III table A

**1960** - First country volume for each territory earlier censuses - as available.

**SOURCES**

**With Urban/Rural summaries if required.**

**Table 1.1.**

**Enumerators' visitation records by household type.**

**Table 1.2 and Table 11.1.**

**Enumerators' visitation records do not show usual residence, so it will not be possible to get a true breakdown of the de facto population by this category. It would not be difficult to impute residence for the institutional population: e.g. hotels - abroad; prisons - this country etc., provided that a detailed listing of population by type of institution is made available. Presumably those enumerated in private households who are not usually resident in the country have a questionnaire filled out, but are excluded from the tabulations by a filter condition during data editing. A request should be made to RPC to produce a count of such non-residents.**
EXPLANATIONS AND DEFINITIONS

A1 "De Facto" population
- Intercensal increase
- Average annual growth rates
- Sex ratio

A2 Criteria for inclusion and exclusion
- Construction of this table by finding differences between the two data sources.

A3 Definition of household types
- Construction of this table by finding differences between the two data sources.

A4 Explanation of how this table is constructed, including imputations made.

DISCUSSION

Trends in total population size, and sex ratios, over time.

Size (relative and absolute) of excluded component.
Variation of proportion excluded by region.

Proportions excluded by household type.

"Guesstimate" what fraction of the population excluded from detailed tables consists of tourists.
BASIC TABLES

A5 Components of intercensal population change, 1970-1980, showing births, deaths, natural increase, intercensal increase, and net migration, all by sex.


A7 Population included in detailed tables by sex, 1970 and 1980, with "included" population as a proportion of the de facto population, and showing intercensal increase (absolute and %) of "included" population.

EXTENSIONS

Registered births for all years 1970-1980 inc.
Registered deaths for all years 1970-1980 inc.

If the data can be found, 1970 Vol III, table A
Guyana and Belize may wish 1980 - Table A1 in each countries' census to include facts about their commentary.
non-Commonwealth neighbours.

1970 - Vol III, table A
1980 - See table A2

DATA SOURCES

SECTION B - DEMOGRAPHIC CHARACTERISTICS

B1 Population by sex and 5-year age-group, with sex ratios for each age group, and percentage distribution by age for each sex, and for the total population.

B2 Percentage age distribution of the population in broad age groups: (under 15, 15 to 64, 65+) for 1960, 1970 and 1980.

B3 Distribution of population by major area, absolute numbers and percentage, 1960, 1970 and 1980; with ratios 70/60 and 80/70.

(Illustration only)

Table 1.2

1960, country Vol. II, table A5
1970, Vol. III, Section B, this country 1980, Table 1.1

Urban-Rural summaries

1950, country Vol. II, table A5
1970, Vol. III, Section C, this country 1980, table 1.2
EXPLANATIONS AND DEFINITIONS

A5 Natural increase
Net migration

A6

A7

SECTION B - DEMOGRAPHIC CHARACTERISTICS

B1 Measure of digit preference.

B2 Dependency ratio.

B3

DISCUSSION

Comment on relative size and direction of natural increase and net migration. Note assumptions made about completeness of coverage of 1970 and 1980 censuses and completeness of vital statistics - if the estimates of natural increase, inter-censal increase and net-migration appear improbable, comment on effects of under-coverage in data sources.

Compare size and growth rate with other countries of the region.

Comment on trend in proportions included in detailed tables, taking into account trend in likely numbers of tourists, as discussed after table A4. Also comment on change in size of "included" population, compared with change in size of De facto population noted after A1.

Calculate measure of digit preference (e.g. Whipples index), comment on its size, and point out any obvious digit preference features of age pyramid. Comment on any peculiarities of the age structure, and on trends of sex ratios with age.

Comment on broad changes in age structure since 1960. Calculate dependency ratios and comment on trend.

Comment on relative growth and decline of different areas since 1960.
**BASIC TABLES**

**B4** Population density by major area

Urban/rural summary if required.

**B5** Locally born population by place of birth and place of residence (major areas)

Urban/rural summary if required.

**B6** Foreign born population by sex and 10-year age groups, with percentage distributions by age and sex ratios.

Proportions of resident population born abroad by age group (if variation with age is interesting).

**B7** Foreign born population by country of birth and year of immigration.

(Note—grouping of birthplace will vary from one country to another).

**B8** Foreign born population by sex, 1960, 1970 and 1980.

**EXTENSIONS**

**SECTION C - ECONOMIC ACTIVITY**

**C1** Adult population by sex and by week's economic activity (absolute numbers and percentage distribution) and percentage distribution for 1970.

Percentage distributions by week’s activity from continuous household survey, where available.

1980 Table 2.1
1970 Vol. IV, table 1 for this country.
Survey data - request.

**C2** Adult population by sex and by main activity (absolute Nos. and % distribution) and % distribution for 1970.

1980 Table 2.2
EXPLANATIONS AND DEFINITIONS

B4 Population density
dispersal index

B5

B6

B7 Birthplace groupings used.
Note "structural" omissions - dead
immigrants, returning emigrants, etc.

B8

SECTION C - ECONOMIC ACTIVITY

C1 Define "adult" population, and
"economically active"

C2 Main activity, Labour Force.

DISCUSSION

Comment on relative density with reference to
current size and trends as revealed by B3. Cal-
culate index of dispersal and comment on its size.

Comment on major components of internal migration,
expressing "movers" and "non-movers" as percentage
of persons born in an area to illustrate magnitude
of drift. Compare with results of tables B3 and B4.

Describe main features of age and sex structure of
immigrant population. Express immigrants as a
proportion of all residents, and comment on varia-
tion of this proportion with age.

Trends in volume of immigration. Percentages of
Immigrants from principal source countries. Changes
in source country composition of migrants during
the last decade.

Describe changes in numbers of immigrants since
1960. Making an allowance for deaths of immigrants
compute likely volume of in-migration in intercensal
intervals. Compare with results of B7. Estimate
out-migration from net migration found in A5. Com-
pare with entry and departure statistics for inter-
censal intervals, if available.

Difference between the sexes. Changes since 1970
Compatibility with household survey data where
applicable. Compute economically active as a pro-
portion of total adult population for each sex.

Difference between sexes, changes since 1970, labour
}
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<th>BASIC TABLES</th>
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<tr>
<td>C3 Percentage distribution of Main Activity for each age-group, by sex, with Labour Force expressed as percentage of total population in each age group.</td>
<td>Urban/Rural summaries where required.</td>
<td>Table 2.2</td>
</tr>
<tr>
<td>C4 Percentage distribution of Main Activity in each Major Area, by sex, with Labour Force expressed as percentage of total.</td>
<td></td>
<td>Table 2.2.3</td>
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<td></td>
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<td>1980 - Tables 2.1 and 2.2.</td>
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<tr>
<td>C6 Adult population by sex and number of months worked, with % distribution by number of months worked for 1970 and 1980.</td>
<td></td>
<td>1970 - Vol. IV, table 7.</td>
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<tr>
<td></td>
<td></td>
<td>1980 - Table 2.2.1</td>
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<tr>
<td>C7 Percentage distribution of number of months worked in grouped main activity categories, by sex.</td>
<td></td>
<td>Table 2.2.1</td>
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<td>1980 - Table 2.2.2</td>
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<tr>
<td></td>
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<td>1980 - Table 2.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1980 - table 2.3</td>
</tr>
</tbody>
</table>
EXPLANATIONS AND DEFINITIONS

C3

DISCUSSION

Variations of main activity and labour force with age and sex.

C4

Variation of main activity and proportions in labour force by area.

C5 Unemployment rate, "employed", "Unemployed"

Variation of unemployment with age and sex, trends since 1970.

C6

Differences between sexes, trends since 1970 in number of months worked.

C7 Main activity groupings

Variation by main activity category of number of months worked.

C8

Compare unemployment rates across education groups and between sexes, comment on trends since 1970.

C9 Occupational status

Compare distributions between sexes and note trends over time.

C10

Comment on variation of unemployment over occupational status, between sexes and trends since 1970.
### BASIC TABLES

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<th>Code</th>
<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>C11</td>
<td>Percentage distribution of occupational groups for employed persons by sex, 1970 and 1980</td>
<td></td>
</tr>
<tr>
<td>C12</td>
<td>Unemployment rates for occupational groups by sex, 1970 and 1980</td>
<td>1970 - Vol. IV, table 1</td>
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</tbody>
</table>

### SECTION D - OTHER SOCIO-ECONOMIC CHARACTERISTICS

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<tr>
<th>Code</th>
<th>Description</th>
<th>Data Sources</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1</td>
<td>Population currently attending school by sex and single years of age; with same expressed as proportion of total population of that age; also proportions for 1970.</td>
<td>1970 - Vol. VI, table 1</td>
</tr>
<tr>
<td>D2</td>
<td>Population currently attending school by sex and type of school attended</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Same from school enrolment records for 1979-80.</td>
<td>Table 5.1 request school enrolment records.</td>
</tr>
<tr>
<td>D4</td>
<td>Percentage distribution of type of education received by adult population, by sex and five-year age-groups.</td>
<td>1980 - table 5.2</td>
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<tr>
<td></td>
<td>EXPLANATIONS AND DEFINITIONS</td>
<td>DISCUSSION</td>
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<tr>
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</tr>
<tr>
<td>C11</td>
<td>Occupational group</td>
<td>Comparison of distributions between sexes and over time.</td>
</tr>
<tr>
<td>C12</td>
<td>Industrial group</td>
<td>Comparison of unemployment rates across groupings and between sexes, noting trends over time.</td>
</tr>
<tr>
<td>C13</td>
<td>Grouping of school types</td>
<td>Comparison of distributions between sexes and over time.</td>
</tr>
<tr>
<td>C14</td>
<td>Define &quot;adult&quot; population</td>
<td>Unemployment rates for different industries, changes since 1970.</td>
</tr>
</tbody>
</table>

**SECTION D – OTHER SOCIO-ECONOMIC CHARACTERISTICS**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>D1</td>
<td>Age patterns of school attendance compared between sexes and over time.</td>
</tr>
<tr>
<td>D2</td>
<td>Comparison of school type attended by sex, bearing in mind results of D1. Comparison with enrolment statistics - comment on &quot;structural&quot; differences due to mid-term dropouts.</td>
</tr>
<tr>
<td>D3</td>
<td>Comparison of educational level between sexes and over time.</td>
</tr>
<tr>
<td>D4</td>
<td>Describe age patterns of educational level, and compare achievements of males and females.</td>
</tr>
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</table>
### BASIC TABLES

<table>
<thead>
<tr>
<th>Table</th>
<th>Description</th>
<th>Year(s)</th>
<th>Source(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D5</td>
<td>Percentage distribution of adult population by sex, according to highest exam passed 1970 and 1980.</td>
<td></td>
<td>1970 Vol. VI, table 4</td>
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<tr>
<td>D6</td>
<td>Proportions of adult populations in each 5-year age group with 7+ years of primary schooling by sex, for 1970 and 1980.</td>
<td></td>
<td>1970 Vol. VI, table 5</td>
</tr>
<tr>
<td>D7</td>
<td>Numbers of persons with vocational training in special occupation groups, and numbers currently training, by sex.</td>
<td></td>
<td>Table 6.2</td>
</tr>
<tr>
<td>D8</td>
<td>Proportions of adults in each 5-year age group with vocational training, by sex, for 1970 and 1980.</td>
<td></td>
<td>1970 Vol. VI, table 6</td>
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<tr>
<td>D9</td>
<td>Percentage distribution of method of training for adults with vocational training, by sex, 1970 and 1980.</td>
<td></td>
<td>1980 Table 6.2</td>
</tr>
<tr>
<td>D10</td>
<td>Population by race, 1960, 1970 and 1980, and percentages in each racial group for each year with ratios 70/60; 80/70.</td>
<td></td>
<td>1980 Table 7.1</td>
</tr>
<tr>
<td>D11</td>
<td>Population by religion, 1960, 1970 and 1980, with percentage distributions for year and ratios 70/60 and 80/70.</td>
<td></td>
<td>1980 Table 7.2</td>
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### SECTION E - MARRIAGE AND FERTILITY

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<th>Source(s)</th>
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<tbody>
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<td>E1</td>
<td>Population aged 15 and over by sex and marital status, 1960, 1970 and 1980, and percentage distributions by marital status for each year.</td>
<td></td>
<td>1960 Vol. III, Part B, Table 1</td>
</tr>
</tbody>
</table>

### DATA SOURCES

- 1970 Vol. VI, table 4
- 1980 Table 5.3
- 1970 Vol. VI, table 5
- 1980 Table 5.4
- Table 6.2
- 1970 Vol. VI, table 6
- 1980 Table 6.1
- 1970 Vol. VI, table 7
- 1980 Table 6.2
- 1980 Table 7.1
- 1970 Vol. VII, Table 1
- 1960 Vol. II, Part A, Table 5
- 1980 Table 7.2
- 1970 Vol. VII, Table 2
- 1960 Vol. II, Part A, Table 6
- 1960 Vol. VIII, Table 1
- 1970 Vol. VII, Table 2
- 1980 Table 8.1

(Note: 1960 data might not be available for all countries.)
EXPLANATIONS AND DEFINITIONS

D5  Grouping of examinations, with particular reference to CXC

D6  Note that 7+ years means completed primary

D7  Relationship of this grouping with one used in C11 and C12

D8  Method of training - note difficulty with "On-the-job" category.

D9  Groupings of race used.

D10 Groupings of religion used.

DISCUSSION

Compare achievements of sexes, and trends since 1970.


Note major occupations for each sex.

Describe general age pattern of vocational training, note differences for sexes, and trend over time.

Differences between sexes, trends over time.

Changes in racial composition over time.

Changes in religious adherence over time.

SECTION E - MARRIAGE AND FERTILITY

E1  Check for discrepancies between married males and females
    Comment on distributions and trends,
<table>
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<td>E2  Percentage distribution by marital status in each sex and age group</td>
<td></td>
<td>Table 8.1</td>
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<tr>
<td>E5  Mean age at marriage, and proportions never marrying, by sex and education.</td>
<td></td>
<td>1980 Table 8.1</td>
</tr>
<tr>
<td>E7  Mean age at union formation, and proportions never entering a union, 1960, 1970 and 1980.</td>
<td></td>
<td>1970 Vol. VIII, part 2, table 1</td>
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<tr>
<td>E8  Mean age at union formation, and proportions never in union by educational attainment</td>
<td></td>
<td>1980 Table 8.2</td>
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<tr>
<td>E9  Live births during the last year by age of mother (5-year age groups) with total numbers of women in each age group (15-49), and age specific fertility rates.</td>
<td>Registered births for May 1970 - April 1980 by age of mother, with age specific fertility rates.</td>
<td>Table 8.4</td>
</tr>
</tbody>
</table>
| E10 Age specific fertility rates and total fertility rate by educational attainment of mother. |                                                                             | Registered births by month of occurrence by age of mother - request from statistical offices. | Table 8.4.1
EXPLANATIONS AND DEFINITIONS

E2

E3 Singulate mean age at marriage

E4

E5

E6 Union status categories

E7 Mean age at union formation

E8

E9 Age specific fertility rates, total fertility rate, half year shift in age in census data compared with registrations.

DISCUSSION

Comparisons across sex and age groups, recalling population sex ratios, influence of remarriage.

Comparison between the sexes, trends since 1960.

Trends since 1960.

Patterns of marriage with education

Patterns of union formation by age
trends over time
Comparisons with analysis of marriage.

Trends since 1960.

Patterns of union formation with education

Compare total live births from census with registered births.
Calculate total fertility rate. Comment on size and shape of fertility schedule. Compare shape with registration based fertility schedule.
Compare shape and level of fertility schedule over education categories.
E11 Age specific fertility rates and total fertility rate by union status

E12 Total children ever born by age of women (5-year age groups 15-74, 75+), with women in each age group and mean parity by age, also mean parities by age for 1980.

E13 Percentage distribution of women by parity for each age group

E14 Fertility rates by 5-year age group and parity of mother

E15 Mean parities by 5-year age group (15-44) and union status, 1970 and 1980

E16 Mean parities by 5-year age group and educational attainment

E17 Mean parities by 5-year age group and main activity

E18 Percentage distribution of age at first and last birth, of women currently aged 50 to 64, for 1970 and 1980

E19 Percentage distribution of age at first and last birth of women currently aged 50 to 64, by union status

DATA SOURCES

Table 8.4.2.

Table 8.3

Table 8.4

Table 8.3.2

Table 8.3.3

Table 8.5 and 8.6

1970 Vol. VIII, part 3, table 1

1980 Table 8.3

Table 8.3

Table 8.4.2

Table 8.3.2

1970 Vol. VIII, part 3, Table 6 and 7
EXPLANATIONS AND DEFINITIONS

E11

E12  Mean parity
Relationship between parity and current fertility.

E13

E14  Age and parity specific fertility rate.

E15  Truncation at age 45, difficulty of measuring "visiting union" fertility

E16

E17

E18  Truncation effects.

E19  Retrospective nature of union status.

DISCUSSION

Compare shape and level of fertility schedule over union status categories.

Describe pattern of variation of parity with age, and trends since 1970. Point out any inconsistencies over time (e.g. declines in cohort parity). Discuss compatibility with current fertility data (E9), taking into account any recent evidence of changes in fertility.

Comment on distributions, particularly on proportions childless by age.

Describe variations of fertility with parity for age groups.

Variation of parity by union status, trends since 1970.

Variation of parity with mother's education.

Variation of parity with mother's employment.

Changes in distribution of ages at first and last birth since 1970.

Variation in distribution of ages at first and last birth with union status.
### SECTION F - HOUSING AND HOUSEHOLD

<table>
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<tr>
<th>Code</th>
<th>Description</th>
<th>Data Sources</th>
</tr>
</thead>
<tbody>
<tr>
<td>F1</td>
<td>Distribution of households by major area (absolute nos. and % distribution) with mean household size for each area, for 1970 and 1980.</td>
<td>1970 Vol. IX, table 1</td>
</tr>
<tr>
<td>F5</td>
<td>Percentage distributions of persons and households by family type</td>
<td>Table 11.3</td>
</tr>
<tr>
<td>F6</td>
<td>Mean No. of persons per room by family type</td>
<td>Table 11.3</td>
</tr>
<tr>
<td>F7</td>
<td>Mean no. of persons per room by major area</td>
<td>Table 11.1</td>
</tr>
<tr>
<td>F8</td>
<td>Percentage distribution of households by sex and main activity of head, 1970 and 1980.</td>
<td>Table 11.2</td>
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</tbody>
</table>
EXPLANATIONS AND DEFINITIONS

SECTION F - HOUSING AND HOUSEHOLD

F1 Household and mean household size

F2 Relationship between the two distributions.

F3

F4 Person to room ratios as measure of overcrowding.

F5 Family type

F6

F7

F8 Arbitrariness of choice of head.

DISCUSSION

Compare distribution of households with that of population (as in Table B3). Describe variation of mean household size and compare with population density (Table B4). Comment on trends since 1970.

Comment on distributions and trends since 1970.

Comment on distributions and trends since 1970.

Comment on distributions, noting skewness. Note trends since 1970.

Describe overall family type distribution for persons and households.

Comment on variation of persons per room ratio, with reference to levels found in F4.

Variation in ratio by major area - compare with distribution of households by size (F1) and population density (B4).

Compare main activity distribution of household heads, with that of general population (Table C2) note trends since 1970.
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<td>F10 Percentage distribution of households by type of tenure, 1970 and 1980.</td>
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<td>1980 Table 9.1</td>
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<tr>
<td>F12 Distribution of dwellings (percentages and absolute number) by year of construction with estimated annual construction rates.</td>
<td></td>
<td>1980 table 9.2</td>
</tr>
<tr>
<td>F14 Percentage distribution of dwellings by type and availability of toilet facilities, 1970 and 1980.</td>
<td></td>
<td>1980 table 10.1</td>
</tr>
<tr>
<td>F16 Percentage distribution by type of cooling fuel used.</td>
<td></td>
<td>1980 table 10.2</td>
</tr>
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</table>

EXTENSIONS:
Breakdown by urban/rural for 1980 if required.

DATA SOURCES:
1970 Vol. IX, table 2
1980 Table 9.1
EXPLANATIONS AND DEFINITIONS

F9

F10

F11  Dwelling (as opposed to household)

F12  Annual construction rate, truncation effects.

F13

F14  Difference between type and availability

F15

F16

DISCUSSION

Comment on distribution and changes since 1970.

Comment on distribution and changes since 1970.

Comment on distribution and changes since 1970.

Comment on distribution and changes since 1970.

Comment on distribution and changes since 1970.

Comment on distribution and changes since 1970.

Describe distribution.

Describe distribution.