

METROPOLITAN POPULATION GROWTH IN ARAB COUNTRIES

By

K.E. VAIDYANATHAN *

1. Introduction

Object and Scope of the Study

Urbanization viewed as a process of population concentration can be studied at the macro and at the micro level. The macro analysis of urbanization treats the urban population in a given area as the unit of analysis, and examines its variation in time and space, and its characteristics vis-a-vis the rural or total population. On the other hand, the micro study of urbanization involves the individual urban units, whose social and demographic traits are examined. A typical micro-analysis will try to identify the factors stimulating or retarding the growth of the specified urban units (town, cities or metropolitan areas), their ecological features, economic structure and so on. Of these two kinds of studies, the more numerous are the macro-studies which deal with the urban population of a

* This research was carried out by the author at the Cairo Demographic Center. Thanks are due to professor S.Huzayyin for his help and encouragement and to Miss Azza Desouki for computational assistance. The author alone is responsible for the views expressed in this paper.

country, region or the world as a whole. Examples of such macro studies are the Kingsley Davis. (United Nations, 1969; Davis, 1969 and 1972). While such studies are important, they cannot provide all the answers sought by planners and policy makers, whose concern is to find solutions to such problems as transportation, water supply, waste disposal, housing and land values, which are specific to each urban unit.

This study examines at the micro level the recent demographic trends in selected metropolitan areas of the Arab World, and their relationship to changes in the total and urban populations in the respective countries. Secondly, the study provides estimates of net migration by sex and broad age groups for each metropolitan area. Thirdly, it analysis the pattern of variation in the metropolitan growth rates and their components, namely migration and natural increase. In sum this study is complimentary to the numerous macro-studies of urbanization in the Arab countries

Definition of Metropolitan Area

In any study of this kind, the most fundamental and difficult problem is the definition of the unit of analysis. Ideally, the delimitation of metropolitan area should take into account

the functional and spatial relationships that exist within a contiguously settled area, and should include within its limits all areas which satisfy certain criteria of functional integration. Such a scientific approach could not be adopted because of the limitations of the available data and the difficulty in arriving at a set of criteria suitable for the entire region. Consequently, metropolitan areas, for the purpose of this study are not strictly defined in comparable terms. Some of our areas are cities proper (CPS), whose populations do not therefore include those of the suburbs, while the others such as Greater Cairo are urban agglomerations (UAs) which include the suburbs.

This study covers the CPs or UAs in the Arab world whose population exceeded 100,000 in the most recent census. Where the administrative boundaries have changed between two recent censuses, the data of the first census has been adjusted to correspond with the later census. Only such places which have at least two satisfactory enumerations have been included in this study. Some important metropolitan centres such as Beirut and Tripoli (Lebanon), Riad and Jadda (Saudi Arabia), Aden (P.D.R.Y) and Amman (Jordan) have been regrettably excluded

from this study due to lack of comparable data for two census dates, even though some of them have carried out a census or survey recently.

Altogether the study covers 49 metropolitan areas from 9 Arab countries. The region is subdivided into two subregions- North Africa and West Asia-to provide a broad regional framework for the analysis. 36 out of the 49 metropolitan centres are located in North Africa, which reflects both the higher degree of urbanization and greater availability fo statistical data for this subregion. The population of the metropolitan areas included in this study amounts to 25 percent of the total population of the region and 63 percent of its urban population. •

Table 1. Coverage of the Study by Sub-regions, countries and Size Classes.

| Country | Definition adopted | Census | No. of metropolitan areas included | | | | | Metropolitan second census (000) | as percent of | |
|---------------------|--------------------|--------|------------------------------------|--------------------|--------------------|----------------------|--------------------|----------------------------------|------------------|------------------|
| | | | All Size Classes | 100,000 to 250,000 | 250,000 to 500,000 | 500,000 to 1,000,000 | 1,000,000 and over | | total population | Urban population |
| <u>North Africa</u> | | | | | | | | | | |
| Algeria | (CP) | 1954 | | | | | | | | |
| | | 1966 | 5 | 3 | 1 | 1 | - | 1,753 | 14.8 | 38.0 |
| Morocco | (CP) | 1960 | | | | | | | | |
| | | 1971 | 10 | 6 | 2 | 1 | 1 | 3,714 | 24.1 | 68.7 |
| Tunisia | (UA) | 1956 | | | | | | | | |
| | | 1966 | 4 | 3 | 1 | - | - | 649 | 14.3 | 35.7 |
| Libya | (CP) | 1954 | | | | | | | | |
| | | 1964 | 2 | 2 | - | - | - | 313 | 20.0 | 81.3 |
| Egypt | (UA) | 1947 | | | | | | | | |
| | | 1960 | 11 | 9 | - | - | 2 | 7,446 | 28.7 | 75.5 |
| <u>West Asia</u> | | | | | | | | | | |
| Syria | (CP) | 1960 | | | | | | | | |
| | | 1970 | 5 | 2 | 1 | 2 | - | 2,085 | 33.1 | 76.1 |
| Iraq | (UA) | 1957 | | | | | | | | |
| | | 1965 | 6 | 3 | 2 | - | 1 | 2,506 | 31.1 | 60.9 |
| Kuwait | (UA) | 1965 | | | | | | | | |
| | | 1970 | 2 | 1 | 1 | - | - | 510 | 69.0 | 69.1 |

II. ANALYSIS OF METROPOLITAN GROWTH RATES

Geographical Variations

The growth rates of metropolitan areas in the Arab region vary from a high rate of 12.7 percent in Hawali (Kuwait) to a low rate of -0.9 percent for Kuwait city. The typical growth rate of the order of 5 percent, but there are considerable deviations from this typical rate. Broadly one may classify the metropolitan areas according to high, medium and low growth rates as follows:

| Country | High (5% and over) | Medium (3% to 5%) | Low (below 5%) |
|---------|---|---|--|
| Algeria | Algiers, Annaba, Constantine, Oran, Sidi Bel Abbas | - | - |
| Morocco | - | Rabat, Casablanca Fes, Kenitra, Meknes, Safi. | Tetouan, Marra- kech, Oujda, Tanger. |
| Tunisia | - | - | Tunis, Bizerte, Sfax, Sousse |
| Libya | Tripoli, Benghazi | - | - |
| Egypt | Cairo, Shubra-El Kheima. | Alexandria, Aswan Mahalla El-Khobra Suez, Zagazig | Asyut, Damanhour, Mansoura, Tanta |
| Sudan | Khartoum, Port Sudan, Khartoum North. | Omdurman | - |
| Syria | Hama, Homs, La- takia, | Damascus, Aleppo | - |
| Iraq | Al-Najaf, Bagdad, Basra | Hilla, Kirkuk Mosul | - |
| Kuwait | Hawali | - | Kuwait City |

One may observe a geographical pattern in the variations in metropolitan growth rates. Generally the metropolitan centres of Algeria, Libya and the Sudan have very high growth rates; the bulk of the metropolitan centres of Morocco and Egypt have medium growth rates, and in Syria and Iraq they are evenly distributed between the two groups. Tunisia stands out as an area of low metropolitan growth rates. The countries are arrayed below in the descending order of their metropolitan growth rates:

| Group | Country | Metropolitan growth rate % |
|-------|---------|-------------------------------|
| I | Algeria | 7.13 |
| | Libya | 6.13 |
| | Kuwait | 5.89 |
| II | Syria | 5.88 |
| | Sudan | 5.35 |
| | Iraq | 5.03 |
| III | Egypt | 3.72 |
| | Morocco | 3.50 |
| | Tunisia | 1.35 |

The countries seem to fall into three homogeneous groups. In the first group having very high metropolitan growth rates., we find a resurgent economy based on oil production; in contrast,

the second group, which is predominantly agricultural countries also have high metropolitan growth rates. However this group comprises of countries with vast unexploited land resources and a low density of population. The third group consists of countries where population pressure is acutely felt.

Related Factors

We may examine what factors are associated with the variations in the growth rates. The degree of urbanization of the countries as measured by the percentage of population in localities of 20,000 and over, does not covary with the metropolitan growth rates for the countries. Nor does the size of population of the countries bear any association with the metropolitan growth rates. It seems that the metropolitan growth rates are more influenced by specific characteristics of the individual centres. One such characteristic is the size of population. Growth rates of metropolitan centres of four size classes are as follows:

| Size class | No. of growth rate centres (percent) | |
|-------------------|--------------------------------------|------|
| 100,000-250,000 | 33 | 4.10 |
| 250,000-500,000 | 8 | 5.56 |
| 500,000-1000,000 | 4 | 5.76 |
| 1000,000 and over | 4 | 4.81 |

The relationship between growth rates and size classes to follow an inverted U-shaped pattern. Growth rates are low when the size of the centres are small, they increase gradually as the centres expand, and finally there is a stage when the growth rates begin to decline as the centres grow further. This point of "saturation" or "urban maturity" seems to be near the million mark as far as Arab countries are concerned.

Another variable that may have an association with metropolitan growth rates is density of the centres, which may be an approximate indicator of congestion. On a cursory examination, one finds that the growth rates are high in some of the congested centres (example, Algiers), while they are low in some less congested places (example Kuwait). A definitive conclusion regarding the relationship between metropolitan density and metropolitan growth will have to wait till further analysis is carried out.

III, MIGRATION TO METROPOLITAN CENTRES

Volume of Net Migration

Metropolitan growth is attributable to three factors-net migration, natural increase and annexation/detachment. of these, information on the last component is not available for

most centres and where they are available. the data for the initial date have suitably adjusted to correspond with the boundaries at the terminal date. Another adjustment that has been done is to make the intercensal period an exact multiple of 5 years, so as to correspond with the age grouping . For most metropolitan areas estimates of net migration have been derived by the Census Survival Ratio Method assuming that there are no differences in mortality between the metropolitan areas and the rest of the country, In reality, mortality in these centres are likely to be lower , and consequently our estimates of net migration are likely to be slightly on the high side. Since the extent of the differential in mortality between the metropolitan areas and the country as a whole is not known, no attempt has been made to apply mortality corrections. For countries that are subject to external migration, such as Algerian, Morocco, Libya, suitable "Closure" of the population was established before deriving the national survival ratios. For the metropolitan areas in Kuwait, Sudan and Tunisia, the CSR Method could not be applied due to absence of suitable or accurate age tabulations for one census or the other. In such cases, the vital statistics method has been applied on the assumption of appropriate rate of natural increase. The net migration estimates are shown in the Reference Tables at the end of the paper.

There are three centres where the volume of net migration exceeded 200,000 in a ten year period. These are Cairo, Algiers and Bagdad. Cairo has the distinction of attracting the highest volume of net migration (with over one million in ten years). There are three centres (Alexandria, Rabat and Casablanca) which received between 100,00 and 200,000 migrants in ten years. On the other hand five centers (Kuwait city, Tunis, Bizerte, Sfax, and Sousse) which have suffered net migration losses. Of these the case of Kuwait city is unique, and is attributable to the growth of the modern cities of Hawali and Ahmadi, which act as "counter magnets". The losses observed for Tunisian Metropolitan centres are entirely due to the exodus of the French, which has been partially offset by the replacement migration that followed. If estimates are derived separately for the Tunisian Moslems, this would show significant migration gains.

Rate of Net Migration

The volume of net migration is influenced inter alia by the size of population. In order to facilitate comparisons between the different centres, we have computed the net migration rates by expressing the amounts of net migration as a ratio of the population at the second census. The net migration rates are shown in Reference Table B and D. There are considerable variations in

the net migration rates, from -5% to +8%. The typical net migration rate is of the order of +2%. The centres may be grouped according to high, medium and low rates of net migration below:

| Country | High (over 2.5%) | Medium (1% to 2.5%) | Low (below 1%) |
|---------|--|-----------------------------------|---|
| Algeria | Algiers, Annaba Constantine, Oran Sidi Bel Abbas | | |
| Morocco | Rabat | Casablanca, Fes, Kenitra, Safi | Marrakech, Meknes Oujda, Tanger, Tetouan |
| Tunisia | | | Tunis, Bizerte, Sfax and Sousse |
| Libya | Benghazi | Tripoli | |
| Egypt | Cairo, Shubra El- Khema | Alexandria, Aswan Suez | Asyut, Damanhour Mnsoura, Mahlla El Kobra, Tanta, Zagazig |
| Sudan | Khartoum, Port Sudan, Khartoum North | Omdurman | -- |
| Syria | Hama, Homs, Lata- kia | Damascus, Aleppo | -- |
| Iraq | Bagdad, Basra | Al Najaf, Hilla Kirkuk, Mousel | -- |
| Kuwait | Hawali | -- | Kuwait |

Five out of the 9 capitals have high migration rates, and almost all major ports have high net migration rates. The distribution of metropolitan areas according to high, medium and low net migration rates resembles closely the distribution of the centres according to high, medium and low growth rates.

Related Factors

We noticed in the previous section that growth rate of metropolitan areas bears an inverted U-shaped relationship with size classes. In view of the close association between net migration rate and growth rate, we should expect a similar relationship between migration rate and size classes of metropolitan centres. The following figures confirm this speculation:

| Size Class | Net Migration Rate (Percent) |
|-------------------|---------------------------------|
| 100,000-250,000 | 1.31 |
| 250,000-500,000 | 2.71 |
| 500,000-1000,000 | 2.84 |
| 1000,000 and over | 2.34 |

Net migration rate increases upto the size class (500,000 to 1000,000) and thereafter it declines. If cross-sectional finding is valid temporally, we may assume in metropolitan population projections an increase in net migration rate upto a stage and thereafter a decline in the rate could be assumed.

Sex-age patterns in net migration

Estimates of net migration by sex and age groups for the metropolitan areas are presented in the Reference Tables A and B. (Also see Figures at the end). In 27 out of the 49 metropolitan centres the volume of net migration is greater for males than females. In the remaining 22 centres, females outnumbered males in the volume of net migration. The situation differed from one centre to another, but there is considerable similarity within each country. The sex patterns are summarized in the following figures:

| Country | Sex-ratio in Net migration (percent) | Number of metropolitan areas having | |
|---------|--|--|----------------------|
| | | males in exces | females in excess |
| Algeria | 95.9 | 1 | 4 |
| Morocco | 81.3 | - | 10 |
| Tunisia | 102.2 | | |
| Libya | 111.6 | 2 | |
| Egypt | 101.8 | 7 | 4 |
| Sudan | ---- | 5 | |
| Syria | 111.0 | 2 | |
| Iraq | 98.9 | | - |
| Kuwait | 113.8 | | - |

In some countries (especially the Maghreb) there is a tendency of female dominance in net migration to metropolitan centres. Similar tendency is noticed in western Europe and North America, but not in Asia. The explanation for female dominance in net migration can be sought in family migration and sequential migration. It is likely that migrants to metropolitan centres in Arab countries (unlike his counterpart in Bombay) prefers to move with his family, including his aged mother. Evidence for this is seen in the migration curve by age. As might be expected, the peak of the migration curve occurs in 20-34 for males, but the curve does not follow the bell-shaped pattern observed elsewhere. The amounts and rates of net migration are high both in the younger and older ages, very likely on account of family migration. In most countries (example, United States and India), there is a sag in the migration curve at older ages, indication return migration. In the case of the metropolitan centres of the Arab world, this is less evident.

IV. RELATIVE ROLES OF NET MIGRATION AND NATURAL INCREASE

Finally we may examine the contribution of net migration and natural increase to the population growth of metropolitan Centres of Arab countries. The relative shares of these

two components are shown in Reference Table D. It may be seen that natural increase is the predominant factor in 33 out of the 49 centres. At the same time, net migration has contributed to over one-third of metropolitan growth in 34 out of the 49 centres. The growth rate and its components for the different countries are shown below:

| Country | Growth Rate (percent) | Net Migr Rat (percent) | Net Inc Rate (percent) |
|---------|--------------------------|---------------------------|---------------------------|
| Algeria | 7.13 | 4.06 | 3.06 |
| Morocco | 3.50 | 1.03 | 2.47 |
| Tunisia | 1.35 | 0.80 | 2.15 |
| Libya | 6.13 | 2.14 | 3.99 |
| Egypt | 3.72 | 1.01 | 2.71 |
| Sudan | 5.35 | 2.75 | 2.60 |
| Syria | 5.88 | 2.67 | 3.21 |
| Iraq | 5.03 | 2.51 | 2.52 |
| Kuwait | 5.89 | 1.69 | 4.20 |

A feature of these estimates is that while there are great variations in growth and net migration rates, the natural increase rates have very little variations. It was noted earlier that the

variations in net migration rates are almost paralld to the variations in growth rates. This would indicate that while natural increase rate is the more important factor in population growth of metropolitan areas, the differentials in the rate of growth are more closely associated with rates of net migration. This hypothesis is tested below by ordering the metropolitan centres having above median and below median growth rates and examining how many of these have above median and below median natural increase and net migration rates:

| Rate of Net Migration and natural increase | No.of centres with growth rates | |
|---|------------------------------------|-----------------|
| | above median | below median |
| Net Migration Rate | | |
| above median | 23 | 2 |
| below median | 2 | 22 |
| Natural Increase Rate | | |
| above median | 17 | 8 |
| below median | 8 | 16 |

two components are shown in Reference Table D. It may be seen that natural increase is the predominant factor in 33 out of the 49 centres. At the same time, net migration has contributed to over one-third of metropolitan growth in 34 out of the 49 centres. The growth rate and its components for the different countries are shown below:

| Country | Growth Rate (percent) | Net Migr Rat (percent) | Net Inc Rate (percent) |
|---------|--------------------------|---------------------------|---------------------------|
| Algeria | 7.13 | 4.06 | 3.06 |
| Morocco | 3.50 | 1.03 | 2.47 |
| Tunisia | 1.35 | 0.80 | 2.15 |
| Libya | 6.13 | 2.14 | 3.99 |
| Egypt | 3.72 | 1.01 | 2.71 |
| Sudan | 5.35 | 2.75 | 2.60 |
| Syria | 5.88 | 2.67 | 3.21 |
| Iraq | 5.03 | 2.51 | 2.52 |
| Kuwait | 5.89 | 1.69 | 4.20 |

A feature of these estimates is that while there are great variations in growth and net migration rates, the natural increase rates have very little variations. It was noted earlier that the

variations in net migration rates are almost paralld to the variations in growth rates. This would indicate that while natural increase rate is the more important factor in population growth of metropolitan areas, the differentials in the rate of growth are more closely associated with rates of net migration. This hypothesis is tested below by ordering the metropolitan centres having above median and below median growth rates and examining how many of these have above median and below median natural increase and net migration rates:

| Rate of Net Migration and natural increase | No.of centres with growth rates | |
|---|------------------------------------|-----------------|
| | above median | below median |
| Net Migration Rate | | |
| above median | 23 | 2 |
| below median | 2 | 22 |
| Natural Increase Rate | | |
| above median | 17 | 8 |
| below median | 8 | 16 |

It is apparent that the variation in growth rate is more closely related to variations in net migration rate than to variations in natural increase rate.

V SUMMARY AND FURTHER ANALYSIS PROPOSED

This brief paper supplements the macro study of urbanization in Arab countries, and tries to examine the variations in metropolitan growth rates at a micro level, and identify the individual contributions of net migration and natural increase to metropolitan growth. The metropolitan growth rates follow some geographical patterns. In countries with an oil-based economy the metropolitan growth rates are high; in countries with vast unexploited resources, they are again high, but slightly below the levels of the first group; in the third group of countries, which have pressure on land, metropolitan growth rates are low. While there are great variations in the growth rates, there is also "clustering" of growth rates in individual countries, with smaller variations "within" each country. Population size of the metropolitan area appears to be an important factor associated with variations in growth rates. Growth rates are low when the centres are small in size, they increase gradually as the centres expand, and finally there is a stage when the growth rates begin to decline. A parallel tendency is

observed for net migration rates also.

In terms of absolute numbers, Cairo, Algiers and Bagdad are the greatest gainers of population through migration. The typical net migration rate is of the order of +2% as against a typical growth rate of 5%. Natural increase emerges as the predominant factor in metropolitan growth, but the differentials in metropolitan growth rates are more closely associated with variations in net migrations rates.

Finally, it may be noted that all the possibilities of analysis of relationships of metropolitan growth are not exhausted in this brief paper. It is proposed to examine some additional variables, such as metropolitan density, administrative, functional and other type of centres, the overall rate of economic growth etc as possible factors of the speed of metropolitan growth.

For some centres it is possible to classify population according to central city and suburbs (or banlieu). In such cases, it is proposed to examine the growth rates and their components for these two classes of areas within each metropolitan centre.

REFERENCES

- Clarke, J. I and John L. Murray, "Population Dynamics of Large Middle Eastern Cities. International Population Conference, Liege. 1973.
- Breese, Gerald, The City in Newly Developing Countries Readings On Urbanism and Urbanization, Prentice-Hall Inc, Englewood Cliffs, N.J. 1969
- Davis, Kingsely, World Urbanization, 1950-1970, Vol I: Basic Data for Cities, Countries and Regions (Berkeley: Institute of International Studies, Population Monograph Series, No. 4, 1970)
- _____, World Urbanization, 1950-1970, Vol II: Analysis of Trends, Relationships, and Development, Population Monograph Series, No 9, Berkeley: Institute of International Studies, 1972.
- Gibbs, Jack, Urban Research Methods, D. Van Nostrand Co Inc., Princeton. N.J. 1967.
- Zachariah, K.C. Migrants in Greater Bombay, Asia Publishing House, Bombay, 1969.

United Nations, "World Urbanization Trends, 1920-60"International Social Development Review, United Nations Publication, Sales No E. 68.IV.1, New York, 1968.

_____ Growth of the Worlds Urban and Rural Population, 1920-2000, Population Studies No44.ST/SOA/Series A/44, New York, 1969.

_____ Methods of Measuring Internal Migration, Manual VI

Vaidyanathan K.E. "Some Features of Urbanization in Arab Countries, "International Population Conference" Liege, 1973.

Data sources

Census Publications of Arab Countries included in the study.

A. Estimates of Net-migration by Sex and Broad Age-groups for
Metropolitan Areas of Arab Countries(in 100)

| Age | Algiers | | Annaba | | Constantine | |
|-------------|---------|---------|--------|---------|-------------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | 415 | 405 | 43 | 43 | 73 | 70 |
| 10-19 | 483 | 510 | 40 | 52 | 86 | 97 |
| 20-34 | 564 | 555 | 60 | 65 | 80 | 101 |
| 35-49 | 330 | 275 | 42 | 27 | 76 | 57 |
| 50-59 | 86 | 117 | 9 | 14 | 13 | 23 |
| 60 and over | 67 | 134 | 6 | 13 | 13 | 30 |
| Total | 1945 | 1996 | 200 | 214 | 341 | 378 |

| Age | Oran | | Sidi Bel-Abbas | | Cairo | |
|-------------|-------|---------|----------------|---------|-------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | 101 | 100 | 16 | 16 | 863 | 819 |
| 10-19 | 93 | 125 | 16 | 24 | 1315 | 1589 |
| 20-34 | 134 | 136 | 35 | 21 | 1700 | 1266 |
| 35-49 | 91 | 67 | 24 | 14 | 792 | 778 |
| 50-59 | 12 | 23 | 4 | 6 | 330 | 375 |
| 60 and over | 13 | 30 | 4 | 8 | 211 | 302 |
| Total | 444 | 481 | 99 | 89 | 5211 | 5129 |

| Age | Alexandria | | Aswan | | Asyut | |
|-------------|------------|---------|-------|---------|-------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | 75 | 68 | 6 | 6 | - 1 | - 1 |
| 10-19 | 223 | 374 | 6 | 7 | 11 | 13 |
| 20-24 | 293 | 76 | 26 | 15 | -- | - 7 |
| 35-49 | 55 | 71 | 6 | 1 | 5 | 4 |
| 50-59 | 37 | 45 | 4 | 2 | 4 | 2 |
| 60 and over | - 5 | 25 | -- | 1 | - 1 | 1 |
| Total | 678 | 659 | 48 | 32 | 18 | 12 |

Reference Table A. (continued)

| Age | Damanhour | | Mansoura | | Mahalla El-Kobra | |
|-------------|-----------|---------|----------|---------|------------------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | - 9 | - 9 | - 7 | - 7 | --- | --- |
| 10-19 | 13 | 26 | 19 | 44 | 13 | 27 |
| 20-34 | 3 | -25 | 2 | -20 | -15 | - 6 |
| 35-49 | 6 | 4 | 10 | --- | - 1 | 3 |
| 50-59 | 3 | -- | 3 | 2 | 1 | 1 |
| 60 and over | - | 2 | - 5 | - 1 | - 6 | 1 |
| Total | 15 | - 2 | 22 | 18 | -9 | 26 |

| Age | Shubra El-Khema | | Suez | | Tanta | |
|-------------|-----------------|---------|-------|---------|-------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | 26 | 26 | 33 | 31 | -24 | -23 |
| 10-19 | 25 | 14 | 12 | 22 | 1 | 35 |
| 20-34 | 54 | 52 | 35 | 54 | -15 | -42 |
| 35-49 | 31 | 13 | 16 | 11 | 7 | - 5 |
| 50-59 | 6 | 5 | 4 | 5 | - 1 | - 4 |
| 60 and over | 1 | 2 | - 1 | 4 | - 9 | - 6 |
| Total | 145 | 112 | 99 | 127 | -41 | -45 |

| Age | Zagazig | | Baghdad | | Al-Najaf | |
|-------------|---------|---------|---------|---------|----------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | - 3 | - 2 | 467 | 434 | 15 | 15 |
| 10-19 | 10 | 26 | 803 | 766 | 39 | 34 |
| 20-34 | - 4 | - 2 | 454 | 519 | 21 | 13 |
| 35-49 | 10 | 4 | 341 | 327 | 18 | 14 |
| 50-59 | 2 | 2 | 149 | 133 | 7 | 9 |
| 60 and over | - 3 | 1 | 99 | 179 | 8 | 8 |
| Total | 12 | 19 | 2313 | 2358 | 108 | 93 |

Reference Table A. (Continued)

| Age | Basra | | Hillah | | Kirhuk | |
|-------------|-------|---------|--------|---------|--------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | 104 | 97 | 15 | 14 | 16 | 15 |
| 10-19 | 172 | 162 | 30 | 32 | 53 | 44 |
| 20-34 | 101 | 107 | 11 | 13 | 46 | 19 |
| 35-49 | 70 | 89 | 6 | 13 | 2 | 7 |
| 50-59 | 43 | 39 | 5 | 5 | 9 | 7 |
| 60 and over | 18 | 40 | 5 | 7 | 2 | 2 |
| Total | 508 | 532 | 69 | 84 | 128 | 94 |

| Age | Mousel | | Bengazi | | Tripoli | |
|-------------|--------|---------|---------|---------|---------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | 23 | 21 | 220 | 218 | 327 | 323 |
| 10-19 | 86 | 77 | 121 | 115 | 161 | 152 |
| 20-34 | 24 | 18 | 183 | 142 | 244 | 208 |
| 35-49 | -- | 16 | 90 | 71 | 131 | 92 |
| 50-59 | 15 | 10 | 36 | 28 | 47 | 38 |
| 60 and over | 9 | 16 | 41 | 39 | 50 | 53 |
| Total | 157 | 158 | 691 | 613 | 960 | 866 |

| Age | Rabat | | Casablanca | | Fes | |
|-------------|-------|---------|------------|---------|-------|---------|
| | Males | Females | Males | Females | Males | Females |
| 00- 9 | 69 | 71 | 106 | 104 | 16 | 16 |
| 10-19 | 170 | 283 | 372 | 605 | 111 | 170 |
| 20-34 | 160 | 82 | 311 | 36 | 14 | 27 |
| 35-49 | 82 | 86 | 137 | 163 | 39 | 54 |
| 50-59 | 2 | 29 | 8 | 56 | 1 | 4 |
| 60 and over | 34 | 36 | 37 | 7 | 5 | 2 |
| Total | 517 | 587 | 881 | 957 | 156 | 219 |

Reference Table A. (Continued)

| Age | Kenitra | | Marrakech | | Meknes | |
|-------------|---------|---------|-----------|---------|--------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | 12 | 12 | - 2 | - 2 | 1 | 1 |
| 10-19 | 31 | 59 | 72 | 101 | 57 | 91 |
| 20-34 | 18 | 12 | -20 | - 32 | -14 | -26 |
| 35-49 | 14 | 11 | -37 | 19 | 21 | 19 |
| 50-59 | - 3 | 3 | - 5 | 2 | -10 | 4 |
| 60 and over | -- | 4 | - 7 | 2 | - 1 | 3 |
| Total | 72 | 101 | 1 | 90 | 54 | 92 |

| Age | Oujda | | Safi | | Tanger | |
|-------------|-------|---------|-------|---------|--------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | -10 | - 9 | 12 | 11 | - 9 | - 9 |
| 10-19 | 30 | 47 | 32 | 48 | 33 | 74 |
| 20-34 | -27 | -45 | 19 | 6 | 3 | -29 |
| 35-49 | 15 | 20 | 22 | 21 | 3 | -- |
| 50-59 | 3 | 22 | 5 | 5 | - 6 | - 3 |
| 60 and over | - 1 | - 2 | -- | 6 | -11 | -16 |
| Total | 4 | 13 | 90 | 97 | 13 | 17 |

| Age | Tetouan | | Damascus | | Aleppo | |
|-------------|---------|---------|----------|---------|--------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | - 4 | - 4 | 103 | 98 | 42 | 39 |
| 10-19 | 23 | 56 | 197 | 185 | 157 | 114 |
| 20-34 | -11 | -18 | 235 | 143 | 58 | 38 |
| 35-49 | 6 | 2 | 34 | 53 | 32 | 33 |
| 50-59 | 1 | 16 | 18 | 24 | 9 | 61 |
| 60 and over | - 8 | -13 | - 1 | 2 | - 4 | 2 |
| Total | 7 | 39 | 586 | 505 | 294 | 287 |

Reference Table A.(Continued)

| Age | Hama | | Homs | | Lattakia | |
|-------------|-------|---------|-------|---------|----------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0-9 | 40 | 38 | 57 | 52 | 64 | 60 |
| 10-19 | 79 | 56 | 99 | 87 | 95 | 85 |
| 20-34 | 39 | 32 | 63 | 55 | 73 | 69 |
| 35-49 | 33 | 32 | 45 | 39 | 44 | 42 |
| 50-59 | 11 | 12 | 14 | 12 | 14 | 13 |
| 60 and over | 16 | 15 | 14 | 17 | 15 | 19 |
| Total | 218 | 185 | 292 | 262 | 305 | 288 |

Net-Migration Rates by Sex and Broad Age-groups for Metropolitan Areas of Arab Countries

(Rates per 1000 of terminal population in each sex-age category)

| Age | Algiers | | Annaba | | Constantine | |
|-------------|---------|---------|--------|---------|-------------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | 256 | 247 | 168 | 168 | 176 | 176 |
| 10-19 | 476 | 509 | 244 | 313 | 320 | 357 |
| 20-34 | 576 | 554 | 413 | 399 | 343 | 384 |
| 35-49 | 547 | 517 | 408 | 285 | 488 | 360 |
| 50-59 | 351 | 489 | 225 | 350 | 209 | 344 |
| 60 and over | 312 | 471 | 158 | 292 | 190 | 369 |
| All ages | 410 | 424 | 267 | 280 | 283 | 305 |

| Age | Oran | | Sidi Bel Abbas | | Cairo | |
|-------------|-------|---------|----------------|---------|-------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | 174 | 175 | 112 | 113 | 118 | 118 |
| 10-19 | 278 | 362 | 174 | 250 | 268 | 325 |
| 20-34 | 425 | 391 | 364 | 232 | 325 | 239 |
| 35-49 | 432 | 340 | 422 | 257 | 206 | 228 |
| 50-59 | 129 | 260 | 162 | 239 | 232 | 290 |
| 60 and over | 165 | 328 | 161 | 264 | 178 | 255 |
| All ages | 276 | 293 | 224 | 203 | 218 | 223 |

| Age | Alexandria | | Aswan | | Asyut | |
|-------------|------------|---------|-------|---------|-------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | 32 | 30 | 88 | 88 | - 4 | - 4 |
| 10-19 | 137 | 224 | 131 | 158 | 78 | 103 |
| 20-34 | 178 | 446 | 374 | 257 | 2 | - 53 |
| 35-49 | 46 | 66 | 135 | 33 | 48 | 45 |
| 50-59 | 76 | 107 | 219 | 193 | 98 | 62 |
| 60 and over | - 12 | 63 | 22 | 104 | -14 | 25 |
| All ages | 88 | 88 | 185 | 144 | 29 | 21 |

Reference Table B. (Continued)

| Age | Damanhour | | Mansoura | | Mahalla ALKobra | |
|-------------|-----------|---------|----------|---------|-----------------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | -46 | - 46 | - 30 | - 30 | -- | -- |
| 10-19 | 89 | 173 | 109 | 239 | 64 | 136 |
| 20-34 | 24 | -199 | 15 | -120 | - 98 | - 33 |
| 35-49 | 65 | 40 | 82 | - 4 | - 8 | 27 |
| 50-59 | 82 | - 12 | 57 | 42 | 10 | 14 |
| 60 and over | -33 | 70 | -137 | - 32 | -183 | 35 |
| All ages | 24 | - 4 | 28 | 23 | - 12 | 30 |

| Age | Shubra El-Khema | | Suez | | Tanta | |
|-------------|-----------------|---------|-------|---------|-------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | 163 | 161 | 90 | 90 | - 85 | - 85 |
| 10-19 | 242 | 159 | 57 | 111 | 7 | 163 |
| 20-34 | 444 | 430 | 173 | 239 | - 81 | -212 |
| 35-49 | 358 | 188 | 91 | 82 | 51 | - 37 |
| 50-59 | 214 | 225 | 61 | 109 | - 28 | - 75 |
| 60 and over | 64 | 117 | - 38 | 114 | -178 | -122 |
| All ages | 273 | 234 | 93 | 129 | - 44 | - 48 |

| Age | Zagazig | | Baghdad | | Al-Najaf | |
|-------------|---------|---------|------------|---------|----------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | - 13 | - 13 | 173 | 171 | 63 | 62 |
| 10-19 | 71 | 180 | 469 | 492 | 262 | 243 |
| 20-34 | - 30 | - 92 | 285 | 343 | 175 | 97 |
| 35-49 | 101 | 47 | 350 | 379 | 230 | 167 |
| 50-59 | 60 | 49 | 357 | 380 | 199 | 249 |
| 60 and over | - 96 | 31 | 260 | 399 | 190 | 165 |
| All ages | 21 | 30 | 297 | 325 | 163 | 136 |

erence Table B. (Continued)

| Age | Basra | | Hillah | | Kirkuk | |
|-------------|-------|---------|--------|---------|--------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | 178 | 175 | 97 | 96 | 50 | 50 |
| 10-19 | 457 | 471 | 292 | 334 | 250 | 240 |
| 20-34 | 333 | 349 | 130 | 160 | 207 | 108 |
| 35-49 | 306 | 396 | 114 | 260 | 18 | 70 |
| 50-59 | 368 | 394 | 232 | 214 | 171 | 169 |
| 60 and over | 207 | 343 | 101 | 249 | 32 | 47 |
| All ages | 300 | 324 | 157 | 196 | 131 | 111 |

| Age | Moussel | | Bengazi | | Tripoli | |
|-------------|---------|---------|---------|---------|---------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | 48 | 48 | 107 | 107 | 71 | 72 |
| 10-19 | 286 | 292 | 272 | 309 | 180 | 210 |
| 20-34 | 84 | 69 | 326 | 232 | 212 | 154 |
| 35-49 | 2 | 114 | 37* | 191* | 96* | 104* |
| 50-59 | 239 | 169 | 175 | 245** | 125** | 186** |
| 60 and over | 106 | 177 | 103+ | 270+ | 41+ | 167+ |
| All ages | 115 | 126 | 190 | 202 | 129 | 132 |

| Age | Rabat | | Casablanca | | Fes | |
|-------------|-------|---------|------------|---------|-------|---------|
| | Males | Females | Males | Females | Males | Females |
| 00- 9 | 92 | 94 | 46 | 47 | 34 | 34 |
| 10-19 | 288 | 422 | 304 | 312 | 267 | 376 |
| 20-34 | 286 | 136 | 218 | 22 | 50 | 85 |
| 35-49 | 204 | 229 | 121 | 149 | 174 | 218 |
| 50-59 | 12 | 235 | 196 | 168 | 16 | 51 |
| 60 and over | 200 | 207 | 108 | 18 | 44 | 16 |
| All ages | 198 | 217 | 119 | 125 | 98 | 131 |

Reference Table B. (Continued)

| Age | Kenitra | | Marrakech | | Meknes | |
|-------------|---------|---------|-----------|---------|--------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | 54 | 55 | - 3 | - 4 | 3 | 3 |
| 10-19 | 190 | 329 | 173 | 237 | 185 | 281 |
| 20-34 | 156 | 82 | - 77 | - 93 | - 67 | -100 |
| 35-49 | 124 | 112 | 152 | 75 | 119 | 105 |
| 50-59 | -100 | 109 | - 47 | 28 | 146 | 64 |
| 60 and over | 3 | 120 | - 48 | 15 | - 14 | 38 |
| All ages | 105 | 144 | 1 | 53 | 46 | 72 |

| Age | Oujda | | Safi | | Tanger | |
|-------------|-------|---------|-------|---------|--------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | - 35 | - 35 | 61 | 61 | - 31 | - 31 |
| 10-19 | 129 | 208 | 218 | 308 | 155 | 310 |
| 20-34 | -198 | -262 | 173 | 44 | 19 | -148 |
| 35-49 | 123 | 151 | 216 | 198 | 22 | - 2 |
| 50-59 | - 60 | 58 | 117 | 150 | -104 | - 64 |
| 60 and over | - 21 | - 48 | - 9 | 126 | -196 | -242 |
| All ages | 5 | 13 | 141 | 147 | 15 | 17 |

| Age | Tetouan | | Damascus | | Aleppo | |
|-------------|---------|--------|----------|---------|--------|---------|
| | Males | Female | Males | Females | Males | Females |
| 0-9 | - 21 | - 20 | 73 | 73 | 38 | 38 |
| 10-19 | 151 | 322 | 202 | 199 | 194 | 157 |
| 20-34 | - 92 | -122 | 248 | 164 | 94 | 64 |
| 35-49 | 61 | 19 | 58 | 106 | 72 | 85 |
| 50-59 | 15 | 305 | 97 | 136 | 62 | 459 |
| 60 and over | -209 | -323 | - 3 | 79 | - 25 | 10 |
| All ages | 10 | 54 | 136 | 124 | 89 | 79 |

Reference Table B. (Continued)

| Age | Hama | | Home | | Lattakia | |
|-------------|-------|---------|-------|---------|----------|---------|
| | Males | Females | Males | Females | Males | Females |
| 0- 9 | 118 | 117 | 121 | 121 | 212 | 212 |
| 10-19 | 333 | 265 | 456 | 302 | 487 | 477 |
| 20-34 | 226 | 200 | 264 | 236 | 447 | 441 |
| 35-49 | 286 | 296 | 248 | 250 | 367 | 412 |
| 50-59 | 306 | 315 | 254 | 254 | 376 | 413 |
| 60 and over | 283 | 256 | 200 | 229 | 360 | 394 |
| All ages | 227 | 205 | 219 | 213 | 355 | 361 |

C. Components of Population Growth in Metropolitan Areas of Arab Countries.
(In 1000)

| Metropolitan | | Period | Population growth | Net Migration | Natural |
|--------------|------------------|-----------|----------------------|------------------|---------|
| | Area | | | | |
| A | Algiers | 1956 - 66 | 604 | 394 | 210 |
| | Annaba | 1956 - 66 | 76 | 42 | 34 |
| | Constantine | 1956 - 66 | 125 | 72 | 53 |
| | Oran | 1956 - 66 | 170 | 92 | 78 |
| | Sidi-Bel-Abbas | 1956 - 66 | 39 | 19 | 20 |
| | Cairo | 1950 - 60 | 2018 | 1034 | 984 |
| | Alexandria | 1950 - 60 | 469 | 134 | 335 |
| | Aswan | 1950 - 60 | 17 | 8 | 9 |
| | Asyut | 1950 - 60 | 29 | 3 | 26 |
| | Damanhour | 1950 - 60 | 31 | 1 | 30 |
| | Mansoura | 1950 - 60 | 4 | 4 | 34 |
| | Mahalla El Kobra | 1950 - 60 | 49 | 2 | 47 |
| | Shubra El khema | 1960 - 60 | 48 | 26 | 22 |
| | Suez | 1950 - 60 | 75 | 23 | 53 |
| | Tanta | 1950 - 60 | 35 | - 8 | 43 |
| | Zagazig | 1950 - 60 | 33 | 3 | 30 |
| | Baghdad | 1955 - 65 | 705 | 467 | 238 |
| | Al-Najaf | 1955 - 65 | 54 | 20 | 34 |
| | Basra | 1955 - 65 | 154 | 104 | 50 |

Reference Table C. (Continued)

| Metropolitan Area | Period | Population Growth | Net Migration | Natural Increase |
|----------------------|---------|----------------------|------------------|---------------------|
| Hillah | 1955-65 | 32 | 15 | 17 |
| Kirkuk | 1955-65 | 59 | 22 | 37 |
| Mousel | 1955-65 | 102 | 32 | 70 |
| Kuwait City | 1965-70 | - 7 | - 42 | 35 |
| Hawali | 1965-70 | 167 | 112 | 55 |
| Bengazí | 1954-64 | 63 | 25 | 36 |
| Tripoli | 1954-64 | 83 | 24 | 59 |
| Rabat | 1961-71 | 210 | 52.4 | 100 |
| Casablanca | 1961-71 | 499 | 184 | 315 |
| Fes | 1961-71 | 100 | 37 | 63 |
| Kenitra | 1961-71 | 48 | 17 | 31 |
| Marrakech | 1961-71 | 82 | 9 | 73 |
| Meknes | 1961-71 | 67 | 15 | 52 |
| Oujda | 1961-71 | 43 | 2 | 41 |
| Safi | 1961-71 | 44 | 18 | 26 |
| Tanger | 1961-71 | 42 | 3 | 39 |
| Tetouan | 1961-71 | 35 | 5 | 30 |
| Damascus | 1960-70 | 307 | 109 | 198 |
| Aleppo | 1960-70 | 220 | 54 | 166 |

Reference Table C. (Continued)

| Metropolitan Area | Period | Population Growth | Net Migration | Natural Increase |
|-------------------|---------|-------------------|---------------|------------------|
| Hama | 1960-70 | 89 | 40 | 49 |
| Homs | 1960-70 | 120 | 56 | 64 |
| Lattakia | 1960-70 | 98 | 59 | 39 |
| Khartoum | 1966-64 | 75 | 42 | 33 |
| Omdurman | 1956-64 | 62 | 20 | 42 |
| Khartoum | 1956-64 | 37 | 22 | 15 |
| Port Sudan | 1956-64 | 31 | 15 | 16 |
| Tunis | 1956-66 | 59 | -32 | 91 |
| Bizerte | 1956-66 | 7 | - 4 | 11 |
| Sfax | 1956-66 | 5 | -10 | 15 |
| Sousse | 1956-66 | 10 | - 1 | 11 |

Average Annual Rates of Net Migration, Natural Increase and Relative share
of Net Migration and Natural Increase to Population Growth in Metropolitan
Areas of Arab Countries
(Rates Per 100 of Average Population)

| Metropolitan Area | Period | Growth Rate | Net Mig. Rate | Natural Increase rate | Percent Share | |
|-------------------|---------|-------------|---------------|-----------------------|---------------|------------------|
| | | | | | Net Migration | Natural Increase |
| Algiers | 1956-66 | 9.42 | 6.14 | 3.28 | 65.2 | 34.8 |
| Annaba | 1956-66 | 3.65 | 3.65 | 2.99 | 55.0 | 45.0 |
| Constantine | 1950-66 | 6.89 | 3.95 | 2.94 | 57.3 | 42.7 |
| Oran | 1956-66 | 7.08 | 3.85 | 3.23 | 54.4 | 45.6 |
| Sidi Bel Abbas | 1956-66 | 5.61 | 2.73 | 2.88 | 48.7 | 51.3 |
| Cairo | 1950-60 | 5.49 | 2.81 | 2.68 | 51.2 | 48.8 |
| Alexandria | 1950-60 | 3.66 | 1.04 | 2.62 | 28.5 | 71.5 |
| Aswan | 1950-60 | 4.33 | 2.02 | 2.31 | 46.6 | 53.4 |
| Asyut | 1950-60 | 2.59 | 0.29 | 2.30 | 11.0 | 89.0 |
| Damanhour | 1950-60 | 2.83 | 0.12 | 2.71 | 4.2 | 95.8 |
| Mansoura | 1950-60 | 2.91 | 0.29 | 2.62 | 10.0 | 90.0 |
| Mahalla El Kobra | 1950-60 | 3.18 | 0.10 | 3.08 | 3.3 | 96.7 |
| Shubra El Khema | 1950-60 | 6.24 | 3.34 | 2.90 | 53.5 | 46.5 |
| Suez | 1950-60 | 4.54 | 1.36 | 3.18 | 29.9 | 70.1 |
| Tanta | 1950-60 | 2.08 | -0.51 | 2.59 | -24.3 | 124.3 |
| Zagazig | 1950-60 | 3.09 | 0.29 | 2.80 | 9.4 | 90.6 |
| Baghadad | 1955-65 | 6.12 | 4.06 | 2.06 | 66.3 | 33.7 |
| Al-Najaf | 1955-65 | 5.07 | 1.87 | 3.20 | 36.9 | 63.1 |
| Basra | 1955-65 | 6.01 | 4.06 | 1.95 | 67.5 | 32.5 |

Reference Table D. (Continued)

| Metropolitan Area | Period | Growth Rate | Net Mig. Rate | Natural Increase Rate | P Net Migration | Precent Share |
|-------------------|---------|-------------|---------------|-----------------------|--------------------|------------------|
| | | | | | | Natural Increase |
| Hillah | 1955-65 | 4.38 | 4.38 | 2.15 | 2.23 | 50.9 |
| Kirkuk | 1955-65 | 3.82 | 1.45 | 2.37 | 37.8 | 62.2 |
| Mousel | 1955-65 | 4.78 | 1.48 | 3.30 | 31.0 | 69.0 |
| Kuwait City | 1965-70 | -0.89 | -5.12 | 4.23 | - | - |
| Hawali | 1965-70 | 12.67 | 8.50 | 4.17 | 67.1 | 32.9 |
| Bangazi | 1954-64 | 6.40 | 2.59 | 3.81 | 40.4 | 59.6 |
| Tripoli | 1954-64 | 5.85 | 1.68 | 4.17 | 28.8 | 71.2 |
| Rabat | 1961-71 | 4.96 | 2.60 | 2.36 | 52.4 | 47.6 |
| Casablanca | 1961-71 | 3.97 | 1.46 | 2.51 | 36.9 | 63.1 |
| Fes | 1961-71 | 3.66 | 1.36 | 2.30 | 37.2 | 62.8 |
| Kenitra | 1961-71 | 4.21 | 1.51 | 2.70 | 35.9 | 64.1 |
| Marrakech | 1961-71 | 3.81 | 0.31 | 2.50 | 11.0 | 89.0 |
| Meknes | 1961-71 | 3.09 | 0.69 | 2.40 | 22.2 | 77.8 |
| Oujda | 1961-71 | 2.79 | 0.11 | 2.68 | 3.8 | 96.2 |
| Safi | 1961-71 | 4.15 | 1.74 | 2.41 | 42.0 | 58.0 |
| Tanger | 1961-71 | 2.54 | 0.18 | 2.36 | 7.2 | 92.8 |
| Tetouan | 1961-71 | 2.84 | 0.38 | 2.46 | 13.33 | 86.7 |
| Damascus | 1960-70 | 4.50 | 1.60 | 2.90 | 35.5 | 64.5 |
| Aleppo | 1960-70 | 4.14 | 1.01 | 3.13 | 24.4 | 75.6 |

Reference Table D. (Continued)

| Metropolitan Area | Period | Growth Rate | Net | Natural | Percent Share | |
|----------------------|---------|----------------|--------------|----------|------------------|---------------------|
| | | | Mig. Rate | Increase | Net Migration | Natural Increase |
| Hama | 1960-70 | 6.28 | 2.85 | 3.43 | 45.3 | 54.7 |
| Homs | 1960-70 | 6.09 | 2.82 | 3.27 | 46.3 | 53.7 |
| Latakia | 1960-70 | 8.39 | 5.08 | 3.31 | 60.5 | 39.5 |
| Khartoum | 1956-64 | 5.76 | 3.23 | 2.53 | 56.0 | 44.0 |
| Omdurman | 1956-64 | 4.18 | 1.38 | 2.80 | 33.0 | 67.0 |
| Khartoum North | 1956-64 | 6.32 | 3.88 | 2.44 | 61.4 | 38.6 |
| Port Sudan | 1956-66 | 5.15 | 2.52 | 2.64 | 48.8 | 51.2 |
| Tunis | 1956-66 | 1.34 | -0.72 | 2.06 | -53.9 | 153.9 |
| Bizerte | 1956-66 | 1.46 | -0.84 | 2.30 | -57.9 | 157.9 |
| Sfax | 1956-66 | 0.71 | -1.43 | 2.14 | -201.1 | 301.1 |
| Sousse | 1956-66 | 1.88 | -0.20 | 2.08 | -10.8 | 110.8 |