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THE PROVISIONAL MILITARY GOVERNMENT OF
SOCIALIST ETHIOPIA

NATIONAL REVOLUTIONARY DEVELOPMENT
CAMPAIGN AND CENTRAL PLANNING
SUPREME COUNCIL

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CENTRAL STATISTICAL OFFICE

REPORT ON THE ANALYSIS OF THE ADDIS ABABA
DEMOGRAPHIC SURVEY, SEPTEMBER 1973

ADDIS ABABA, DECEMBER 1979

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MAP

1. Addis Ababa map showing the selected enumeration areas and administrative levels of the city.

INTRODUCTION

Addis Ababa, the capital of the nation is a young city which is about a century old. It is situated at the centre of the country in the heart of Shoa region. It is spread at the foot of the Entoto Mountains amidst a green forest of eucalyptus trees. It was founded in 1880 by Emperor Menelik II when he moved Ethiopia's capital from Ankober. The first site of the city was at the top of the Entoto mountain range, however, by about 1887, the capital was shifted to the foot of the mountains near the present site of Finfine. The development of the city started with the triumphant victory over Italy at the battle of Adwa in 1896, which has brought recognition of the city by foreign powers and the consequent sending of their diplomatic missions to Addis Ababa. During Fascist Italy invasion on May 5, 1936 the city served as the main centre for Italian occupation force until April 1941, and substantial changes have taken place during this period. After liberation the city has developed progressively until the present day.

Addis Ababa lies 9.02 degrees latitude North of the Equator and 38.44 degrees longitude East of Greenwich. It has an altitude of 2,408 meters above sea level and ranges between 3,000 meters at the top of the Entoto mountain to 2,200 meters at the foot of the city. The altitude has a cooling effect and as a result the temperature varies from an average maximum of 21.7 degrees centigrade to an average minimum of 10.7 degrees centigrade. It has an area of 240 square kilometers.

Addis Ababa is linked with all the regional capitals of the country by five major highways leading out of the city. There is also an international railway linking Addis Ababa with Djibouti, the port city in the Republic of Djibouti. It has also an international Airport linking the country with the major cities of the world. The city

has a modern communication system with the outside world which is greatly enhanced by the recently established earth satellite. Addis Ababa is the seat of the Organization of African Unity, United Nations Economic Commission for Africa, other International bodies and diplomatic missions.

Summary of Census and Survey Results

To fill the gap in demographic data requirements, two population and housing censuses, a demographic sample survey, a manpower and housing sample survey, and a housing census (registration) followed by 7.7 percent demographic sample survey have been carried out in Addis Ababa since September 1961. According to the first census conducted in September 1961, the population of the City was 448,512.¹ The second population and housing census of September 1967, which was followed by 10 percent demographic sample survey, resulted in a population of 683,530.² The inhabitants of the Capital City as estimated by the Manpower and Housing Sample Survey of December 1976 were 1,099,851 persons³. In August 1978, the Ministry of Urban Development and Housing conducted a Housing Census (registration) of Addis Ababa. The housing registration questionnaire had query on number of persons by sex and broad age group living in households and other living quarters. The returns of the housing census (registration) revealed the population of the city to be 1,163,977, out of which 2,671 (2411 males, 260 females) were homeless (floating) population⁴.

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1. Municipality of Addis Ababa, Report on Census of Population 10-11 September 1971.
 2. Central Statistical Office, Population of Addis Ababa, July, 1972.
 3. Central Statistical Office, Addis Ababa Manpower and Housing Sample Survey, Dec. 1976.
 4. Ministry of Urban Development and Housing, preliminary results of the August 1978 housing registration.

The housing census and the demographic sample survey of Addis Ababa was a joint venture conducted by the Ministry of Urban Development and Housing, the Municipality of Addis Ababa and the Central Statistical Office. The demographic sample survey estimated the population as 1,167,315 and households as 262,806 giving an average of 4.4 persons per household. If the 2,671 homeless population are included the population of the city would be 1,169,986.

The balance between the sexes in the City has changed from an initial excess of males in 1961 in favour of more females in the population. The sex ratio defined as the ratio of number of males per 100 females has dropped from 105.3 in 1961 to 97.5 in 1967 to 91.2 in 1976 and 90.2 males per 100 females in 1978.

Average annual population growth rate of Addis Ababa from Sept. 1961 to Sept. 1978 was 5.8 percent. However, average annual population growth rate was higher between the two censuses (i.e. 1961-1967) than between 1967 and 1978. Average annual population growth rate between 1961 and 1967 was 7.0 percent, while the corresponding rate from 1967 to 1978 was 5.0 percent.

Contents of the Survey

The survey collected the following demographic information:

1. For all persons, age, sex, relationship to head of household, ethnic group, place of birth, place of previous residence, length of continuous residence and survival of parents.

2. For all persons aged ten years and over, marital status, literacy, highest grade completed, number of days worked last week, reason for not working last week, occupation,

employment status, address of establishment and major output.

3. For all females aged ten years and over, age at first marriage, children ever born alive, children living, children dead, living children born in the last twelve months, and children dead among those born during last twelve months.

4. For all households, deaths to members of the household during the last 12 months by name, sex and age of deceased.

MANPOWER DEPLOYED

A Committee Consisting of the Staff of the Ministry of Urban Development and Housing, the Central Statistical Office and the Municipality of Addis Ababa was established on July 10, 1978, for the execution of the Addis Ababa Housing Registration. The Committee members have also directed the demographic survey that followed the housing registration. For the survey, 20 supervisors, 91 enumerators and 17 drivers were deployed for the field work. The supervisors were from the Central Statistical Office, 53 enumerators were students of the Addis Ababa Municipality, Technical College, and the remaining 38 enumerators were selected out of the enumerators sent by Kebeles for the Addis Ababa Housing Registration. The enumerators had at least an educational background of 12th grade. The administration and clerical employees of the Ministry of Urban Development and Housing handled purchases of supplies, transport, financial ...etc. aspects of the survey operation.

Apart from the service provided by its members in the Committee, the Municipality of Addis Ababa has contributed a sum of 13,400 birr for the field work. The professional staff of the Central Statistical Office effectively participated in designing the survey, preparing the questionnaire, enumerators instruction manuals, giving training, and

supervising the field work. Also, the Central Statistical Office has handled the work of operations from editing and coding the returns, to computer processing of the data, analysis and publication of the report.

Training and Duration of the Survey.

Training and enumeration area identification took from August 28-30, 1978. The supervisors and enumerators were provided with instruction manuals and were given training for three days by the professional staff of the Central Statistical Office. The training constituted class discussions as well as field interview demonstrations. The questionnaires filled out by the enumerators during the demonstration interview were scrutinized by the professional staff and errors were brought to the attention of the enumerators and supervisors so that such errors should not be repeated during the actual survey. Actual field enumeration started on August 31, 1978 and lasted to September 17, 1978. The actual field work took 15 days discounting national holidays. However, completion of non-responses and call-backs took some extra time. This was due to the fact that all or some household members were very difficult to find or can only be contacted only outside normal working hours, because of the nature of their jobs, or some households have gone for vacation with no one to report for them.

Presentation of the Report

The Report has two parts. In the first part summary tables, relevant measures and rates, and brief analysis of each survey topic is given. The topics covered in the first part are population characteristics, migration, literacy and educational attainment, labour force, fertility, mortality

population growth and projection. The second part is an appendix. It has three sections. The first section of the appendix is statistical tables which contains detailed tabulation of results. The second section deals with methodology. The third section of the appendix is the questionnaire.

I - POPULATION CHARACTERISTICS

1 - Population Size and Age-Sex Composition

The Addis Ababa Demographic Survey estimated the population of the City as of September 1978 at 1,167,315. There are 553,695 males as compared to 613,620 females giving a sex ratio of 90 males per 100 females which means that the female population outnumber the males (see Table 1)

The male age distribution shows 88,103 children reported in the age group 0-4, 80,236 children in the age group 5-9, 67,279 persons in the age group 10-14 and gradually declining number of persons in the subsequent age groups. The reported number of persons by age shows a smooth gradual decline from the preceding to the following age group except for some heaping at the age group 25-29. The female age distribution shows heaping at the age group 15-19 and sudden decline of persons reported after the age group 25-29.

An examination of age specific sex ratios shows that about the same number of males and females at the age group 0-4, considerable excess of females at the ages 5-29, excess of males at the ages 30-49, and deficit of males thereafter with the exception of the age group 75-79 which may be due to incorrect age reporting. The excess of females in the young ages suggests that female migrants to the city were probably at the ages of 10-29 years. However, the excess may also be partly to age-understatement of the females in these age groups. The excess of females in the ages 50 and over may be genuine due to higher female longevity than males in the older ages.

The percentage age composition of the population is such that 41.3 percent is under 15 years, 55.9 percent aged 15-64 years, and 2.5 percent aged 65 years and over. The

proportion of children under 15 years is higher for the males than the females, that is, 42.6 percent males compared to 40.2 percent females. About 55 percent of the males and 57 percent of the females are aged 15-64 years.

TABLE 1. POPULATION BY SEX AGE GROUP AND SEX RATIO

Age Group	MALES		FEMALES		BOTH SEXES		Sex ratio
	Number	%	Number	%	Number	%	
0 - 4	88,103	15.9	87,490	14.3	175,593	15.0	100.7
5 - 9	80,236	14.5	83,728	13.6	163,964	14.0	95.8
10 - 14	67,279	12.2	75,782	12.3	143,061	12.3	88.8
15 - 19	59,877	10.8	83,151	13.5	143,028	12.3	72.0
20 - 24	45,012	8.1	62,636	10.2	107,648	9.2	71.9
25 - 29	46,325	8.4	61,991	10.1	108,316	9.3	74.7
30 - 34	38,515	7.0	37,034	6.1	75,549	6.5	104.0
35 - 39	36,687	6.6	34,383	5.6	71,070	6.1	106.7
40 - 44	28,589	5.2	24,410	4.0	52,999	4.5	117.1
45 - 49	18,912	3.4	15,648	2.5	34,560	3.0	120.9
50 - 54	11,876	2.1	12,054	2.0	23,930	2.0	98.5
55 - 59	8,140	1.5	9,032	1.5	17,172	1.5	90.1
60 - 64	8,224	1.5	9,821	1.6	18,045	1.5	83.7
65 - 69	5,162	0.9	6,148	1.0	11,310	1.0	84.0
70 - 74	3,855	0.7	4,430	0.7	8,285	0.7	87.0
75 - 79	1,893	0.3	1,675	0.3	3,568	0.3	113.0
80 - 84	1,444	0.3	1,896	0.3	3,340	0.3	76.2
85 & over	1,237	0.2	1,240	0.2	2,477	0.2	99.8
Not stated	2,329	0.4	1,071	0.2	3,400	0.3	217.5
TOTAL	553,695	100.0	613,620	100.0	1,167,315	100.0	90.2

TABLE 2. PERCENTAGE DISTRIBUTION OF POPULATION BY SEX AND BROAD AGE GROUPS: 1961, 1967 AND 1978

A G E G R O U P						
Period	Sex	0-14	15-64	65 & over	Not stated	Total
1961	Male	33.0	64.2	2.1	0.7	100.0
	Female	34.2	63.1	2.3	0.4	100.0
	Both Sexes	33.5	63.7	2.2	0.6	100.0
1967	Male	40.0	57.2	2.0	0.8	100.0
	Female	39.2	58.3	2.0	0.5	100.0
	Both Sexes	39.6	57.8	2.0	0.6	100.0
1978	Male	42.6	54.6	2.4	0.4	100.0
	Female	40.2	57.1	2.5	0.2	100.0
	Both Sexes	41.3	55.9	2.5	0.3	100.0

As can be observed in Table 2, the proportion of children in the population has grown up from about 34 percent in 1961 to 41 percent in 1978. The proportion of adults in the population has declined from 64 percent in 1961 to 56 percent in 1978. The proportion of aged persons has also shown slight increase, except for the low proportion of aged persons in 1967 which may be due to errors of age-reporting.

2 - RELATIONSHIP TO HEAD OF HOUSEHOLD

The relation of each household member to the head of household was asked. Out of the estimated 1,167,315 persons, 262,806 are heads of households, 147,081 are wives, 255,525 are sons, 254,874 are daughters, 66,161 are other relatives, 47,401 persons are either maids or guards, etc. The heads of households are about 23 percent, and sons and daughters consisted of 44 percent of the total population. A considerable number of heads of households are males, that is

190,658 male heads in contrast to 72,153 female heads. The male population consisted of 34 percent heads, 46 percent sons, 6 percent other relatives, 4 percent brothers, about 4 percent grand children, adopted children and step children, and about 5 percent non-relatives, housekeepers and guards. While the female population consisted of 12 percent heads, 42 percent daughters, 24 percent wives, 6 percent maids, 6 percent other relatives, 4 percent grand children, adopted children and step children, about 3 percent sisters, etc. The percentage of husbands who are not heads of households is very negligible whereas females who are wives but not heads of households are substantial (see Tables 3).

TABLE 3. POPULATION BY SEX AND RELATIONSHIP TO HEAD OF HOUSEHOLD

Relationship	MALES		FEMALES		BOTH SEXES	
	No.	%	No.	%	No.	%
Head	190,653	34.4	72,153	11.8	262,806	22.5
Husband	2,873	0.5	-	-	2,873	0.2
Wife	-	-	147,081	24.0	147,081	12.6
Son	255,525	46.2	-	-	255,525	21.9
Daughter	-	-	254,874	41.5	254,874	21.8
Father	1,605	0.3	-	-	1,605	0.1
Mother	-	-	10,022	1.6	10,022	0.8
Brother	22,835	4.1	-	-	22,835	2.0
Sister	-	-	20,767	3.4	20,767	1.8
Grand, Adopted, and Step Children	19,296	3.5	22,498	3.7	41,794	3.6
Other relatives	32,473	5.9	33,688	5.5	66,161	5.7
Non-relatives	18,357	3.3	14,248	2.3	32,605	2.8
Maid / Guard	9,649	1.7	37,752	6.1	47,401	4.1
Not Stated	343	0.1	355	0.1	698	0.1
TOTAL	553,744	100.0	613,571	100.0	1,167,315	100.0

3. HOUSEHOLD SIZE AND DISTRIBUTION

The estimated total size of households in the city are 262,806 and the population living in them are 1,167,315 and the average number of persons per household is 4.4 persons (See Table 4). Households with only one person constituted 15 percent of the total households, two person, three person and four person households constituted 14, 15 and 14 percent of total households, respectively. Thereafter the proportion of households decreases with increasing number of persons per household. The proportion of households that have up to five persons comprised about 70 percent of total households. The proportion of households with up to ten persons comprised 96 percent of all households.

In terms of population, the proportion in single person households constituted four percent of the total population. The proportion living in households with members up to 5 persons constituted about 46 percent of the total population. The proportion living in households with members up to ten persons comprised about 90 percent of the total population, and 10 percent of the population live in households with more than ten persons.

The average size households in the city is showing an increasing trend. The average household size rose from 3.5 persons per household in 1961 to 3.9 in 1967 to 4.4 persons per household in 1978.

4. HOUSEHOLD PATTERN

An attempt is made to study the household pattern in the city. Data on household pattern is useful for studying the degree of extended family system and the type of family formation. Data on household pattern was derived from responses to the question on relationship to the head of the household.

TABLES 4. DISTRIBUTION OF HOUSEHOLDS AND POPULATION BY
NUMBER OF PERSONS PER HOUSEHOLD

Number of persons per household	HOUSEHOLDS		POPULATION	
	Number	%	Number	%
1 person	40,498	15.4	40,498	3.5
2 Persons	36,863	14.0	73,726	6.3
3 persons	38,289	14.6	114,867	9.8
4 persons	35,643	13.6	142,572	12.2
5 persons	30,670	11.7	153,350	13.1
6 persons	24,940	9.5	149,640	12.8
7 persons	18,640	7.1	130,480	11.2
8 persons	13,805	5.3	110,440	9.5
9 persons	8,222	3.1	73,998	6.3
10 persons	5,540	2.1	55,400	4.8
11 persons	3,814	1.5	41,954	3.6
12 persons	2,488	0.9	29,856	2.6
13 persons	1,257	0.5	16,341	1.4
14 persons	807	0.3	11,298	1.0
15 persons	565	0.2	8,475	0.7
16 persons	302	0.1	4,832	0.4
17 persons	95	0.0	1,615	0.1
18 persons	75	0.0	1,350	0.1
19 persons	71	0.0	1,349	0.1
20 persons or more	222	0.1	5,274	0.5
TOTAL	262,806	100.0	1,167,315	100.0

The most common household types are (See Table 5). Couple with own children only, who comprised 24 percent of all households; single person households (that is heads of households living by themselves) constituted 15 percent of all households; couples with own children and relatives are 12 percent of all households; heads without spouse but

with own children comprise 10 percent of all households; couples with no children about 6 percent; and heads without spouse but with own children and relatives about 5 percent. The proportion of households composed of non-related persons constituted about 3 percent. It should be noted that relatives include father, mother, brother, sister, grand, step and adopted children and other relatives of either the husband or wife. Non-relatives include friends, non relative dependents, maids and guards. Those households who could not be described by the fifteen categories used constituted about 8 percent of all households and are put under others.

We may consider the categories of single person households, couples with no children, couples with own children only, and heads with out spouse but with own children as population living in nucleus families. Based on the data about 56 percent of all households live in nucleus families. and about 44 percent live in some form of extended family relationships. About 52 percent of all households are composed of couples and their dependants.

5. MARITAL STATUS

The question on marital status was asked to persons aged 10 years and over. According to the responses on the question on marital status, respondents were classified into single, married, widowed and divorced.

The marital status of the population by age group shows almost all the males and the females aged 10-14 are single. The proportion of married males and females aged 10-14 are 1.6 and 2 percent, respectively. Hence analysis of the marital composition of the population should be limited to population aged 15 years and over. The marital status of population aged fifteen years and over is given in Table 6.

TABLE 5. DISTRIBUTION OF HOUSEHOLD BY TYPE

Household Type	HOUSEHOLDS	
	Number	%
Single person household	40,498	15.4
Couple with no children	15,202	5.8
Couple with no children but with relatives	9,348	2.6
Couple with no children but with non-relatives	1,721	0.7
Couple with no children but with relatives and non-relatives	1,918	0.7
Couple with own children only	63,728	24.2
Couple with own children and relatives	30,586	11.6
Couple with own children and non-relatives	12,927	4.9
Couple with own children, relatives and non-relatives	7,162	2.7
Head with out spouse but with own children	27,015	10.3
Head without spouse but with own children and relatives	12,263	4.7
Head without spouse but with own children and non-relatives	4,705	1.8
Head without spouse but own children, relatives and non-relatives	4,203	1.6
Head without spouse and children, but with relatives and non-relatives	4,717	1.8
Households composed of non-related persons	6,480	2.5
Others	20,333	7.7
TOTAL	262,806	100.0

The population aged 15 years and over consisted of 32 percent single, 49 percent married, 14 percent widowed and 6 percent divorced. The proportion of single males is 40

TABLE 6. POPULATION 15 YEARS AND OVER BY SEX
AND MARITAL STATUS

Marital Status	POPULATION					
	Males		Females		Both Sexes	
	Number	%	Number	%	Number	%
Single	126,478	39.8	91,484	25.0	217,962	31.8
Married	168,554	53.0	163,121	44.5	331,675	48.5
Widowed	16,396	5.2	76,426	20.8	92,822	13.6
Divorced	4,606	1.4	33,382	9.1	37,988	5.5
Not Stated	2,043	0.6	2,207	0.6	4,250	0.6
TOTAL	318,077	100.0	366,620	100.0	684,497	100.0

percent as compared with 25 percent females. The males that are married are 53 percent as compared with 45 percent females. The proportion of males who are widowed is 5 percent as compared with 21 percent females, and about one percent males are divorced as compared with 9 percent females. There is significant proportional difference between widow and widower.

To compare changes in marital status composition between 1967 and 1978 the percentage marital status distribution of population 15 years of age and over for the two periods is presented as follows.

<u>Marital Status</u>	<u>Sex</u>	<u>1967</u>	<u>1978</u>
Single	Male	33.6	39.8
	Female	15.6	25.0
Married	Male	58.8	53.0
	Female	55.9	44.5
Widowed	Male	1.1	5.2
	Female	7.7	20.8
Divorced	Male	6.5	1.4
	Female	20.8	9.1

Since 1967 the proportion single for both sexes has increased significantly, and the proportion married especially for females has declined by about 11 percentage points and the proportion widowed has gone up, especially for females. The proportion divorced has been considerably reduced.

6. ETHNIC GROUP

The survey collected information on the ethnic group of respondents. In cases where respondents belong to more than one ethnic group, the respondents fathers' ethnic group was taken. The major ethnic groups in the city are Amara, Oromo, Gurage, and Tigray with very low proportions of Dorzie and Wollayta. The four major ethnic groups, Amara, Oromo, Gurage and Tigray constituted 94 percent of all ethnic groups in the city. The Amaras constituted 51 percent, the Oromos 19 percent, the Gurages 17 percent, and the Tigray 8 percent of the city population. The foreigners constituted a negligible proportion of less than one percent. Females out number males for each ethnic group with the exception of the Gurages, the Dorzies who leave their women behind in the country side. The survey revealed that twenty nine Ethiopian ethnic groups are living in the city but with the exception of the twelve ethnic groups, the rest are minor ethnic groups with populations of less than 1000. The ethnic groups with population less than 1000 are combined to form other Ethiopian ethnic groups as indicated in Table 7.

TABLE 7. POPULATION BY SEX AND ETHNIC GROUP

Ethnic Group	MALE		FEMALE		BOTH SEXES	
	Number	%	Number	%	Number	%
Amara	259,910	46.9	329,242	53.7	589,152	50.5
Oromo	99,261	17.9	118,072	19.2	217,333	18.6
Gurage	108,627	19.6	83,535	13.6	192,162	16.6
Tigray	44,989	8.1	50,554	8.2	95,543	8.2
Dorzie	18,190	3.3	9,801	1.6	27,991	2.4
Wolayta	6,411	1.2	6,637	1.1	13,048	1.1
Kenbata	2,338	0.4	1,898	0.3	4,236	0.4
Aderre	1,590	0.3	1,381	0.2	2,971	0.2
Tigre	1,258	0.2	1,200	0.2	2,458	0.2
Worjie	722	0.1	879	0.2	1,601	0.1
Keffa	685	0.1	825	0.1	1,510	0.1
Hadia	730	0.1	546	0.1	1,276	0.1
Other Ethiopians	3,365	0.6	3,205	0.5	6,570	0.7
Foreigners	4,287	0.8	4,679	0.8	8,966	0.8
Not Stated	1,318	0.2	1,166	0.2	2,484	0.2
TOTAL	553,681	99.8	613,620	100.0	1,167,301	100.0

II - MIGRATION

As regards migration the following questions were asked:

- a) Length of continuous residence in the city in years
- b) Place of birth
- c) Place of previous residence

1. Duration of continuous residence in years.

The question on length of continuous residence in the city helps to classify the population into migrants and non-migrants. Those who were born in Addis Ababa and have lived continuously (always) in the city till the survey date are considered as non-migrants. The migrants to the city are classified on the basis of the number of years they have resided in the city that is, number of persons residing for less than one year, two years,, 10 years and over, as presented in Table 8.

Forty-seven percent of the total population are non-migrants, and the remaining fifty-three percent are migrants. The proportion of the population who resided for less than one year constituted about 3 percent of the total population. About 23 percent of the population have resided for less than ten years and about 29 percent have resided for ten years and over. The table shows a reduction of in-migrants to the city during the year preceding the survey.

If we consider that number of persons who resided for under one year, two years, as in migrants to the city, we can compute in-migration rates by dividing the number of persons who resided for specified years by the total population. Based on this the annual in migration rate for the years preceding the survey date, is 2.6 percent for males, 3 percent for females and 2.6 percent for the total population. The average in-migration rate during the

TABLE 8. POPULATION BY SEX AND LENGTH OF CONTINUOUS RESIDENCE

Length of Continuous Residence in Years	MALE		FEMALE		BOTH SEXES	
	Number	%	Number	%	Number	%
Resided always	263,731	47.6	287,594	46.9	551,325	47.2
Resided under 1 year	14,077	2.6	18,518	3.0	32,595	2.8
Resided for 1 "	9,959	1.8	13,959	2.3	23,918	2.0
" " 2 "	12,809	2.3	17,321	2.8	30,130	2.6
" " 3 "	14,361	2.6	17,940	2.9	32,310	2.8
" " 4 "	13,921	2.5	18,651	3.0	32,572	2.8
" " 5 "	12,837	2.3	17,682	2.9	30,519	2.6
" " 6 "	12,136	2.2	14,819	2.4	26,955	2.3
" " 7 "	10,048	1.8	13,394	2.2	23,442	2.0
" " 8 "	11,514	2.1	14,599	2.4	26,113	2.2
" " 9 "	5,541	1.0	8,059	1.3	13,600	1.2
10 Years & Over	166,743	30.1	166,743	27.2	333,633	28.6
Not Stated	6,004	1.1	4,185	0.7	10,189	0.9
TOTAL	553,681	100.0	613,620	100.0	1,167,301	100.0

past five years is 2.4 percent for males, 2.8 percent for females and 2.6 percent for the total population. Note, however, that an estimate of the net-migration ^{net} to the city is not possible due to the fact that data on out-migration is not available.

Age-Sex Structure of Migrants and Non-migrants The age-sex distribution of migrants and non-migrants is presented in Table 9.

The data demonstrate that migration to the city is age and sex selective. Most of the migrants, about 74 percent, are at the ages 15-49 years. The majority of female migrants are aged 15-29 years, whereas the majority of male migrants

are aged 30-49 years. In general 52 percent of the migrants to the city are females as compared with 47 percent males.

The majority of the non-migrants, about 73 percent are children under the age of 15. The high proportion of non-migrant children is primarily due to the fact that the majority of them are children of migrant parents born after their parents have migrated to the city.

Marital Status of migrants and non-migrants. The data on migrants and non-migrants by marital status is presented in Table 10. An examination of the data shows about half of the urban and rural migrants to the city are married, and about 30 percent are single. It is to be observed that the proportions single and married are higher for the male than the female migrants. The percentage of widowed and divorced migrants is relatively higher among the females than the males. The non-migrants are predominantly single, that is about 76 percent of the non-migrant population is single.

Migrants and non-migrants by educational level. Data on migrants and non-migrants by educational level and rural urban origin of the migrants are given in Table 11. About 63 percent of rural migrants and 51 percent of the urban migrants are illiterate, in contrast only 17 percent of the non-migrants are illiterates. The illiterate female migrants are considerable, that is about 80 percent of the rural and 67 percent of the urban female migrants are illiterate. 16 percent rural and 15 percent urban male migrants were literate with no grade or learned in priest or koranic schools as compared with about 2 percent rural and urban female migrants. In general, 72 percent of the rural and 59 percent of the urban migrants have never been to school in contrast to 20 percent of those born in Addis Ababa. Male migrants to the city, especially those from

TABLE 9. MIGRANTS AND NON-MIGRANTS BY SEX AND AGE GROUP

Type	Sex	0 - 14		15 - 29		30 - 49		50+		M/S		Total	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Non-migrants	M	198,080	75.1	49,791	18.9	12,191	4.6	3,605	1.4	64	0.0	263,731	100.0
	F	203,303	70.7	63,057	21.9	15,456	5.4	5,530	1.9	248	0.1	287,594	100.0
	M+F	401,383	72.8	112,848	20.5	27,647	5.0	9,135	1.7	312	0.0	551,325	100.0
Migrants	M	34,797	12.4	100,338	35.3	109,659	38.6	37,920	13.4	1,232	0.4	283,946	100.0
	F	41,466	12.9	143,978	44.7	95,458	29.7	40,514	12.6	425	0.1	321,841	100.0
	M+F	76,263	12.6	244,316	40.3	205,117	33.9	78,434	12.9	1,657	0.3	605,787	100.0
Not Stated	M	2,727	45.4	1,085	18.1	853	14.2	306	5.1	1,033	7.2	6,004	100.0
	F	2,231	53.3	743	17.8	561	13.4	252	6.0	398	9.5	4,185	100.0
	M+F	4,958	48.7	1,828	17.9	1,414	13.9	558	5.5	1,431	14.0	10,189	100.0
Total	M	235,604	42.5	151,214	27.3	122,703	22.2	41,831	7.6	2,329	0.4	553,681	100.0
	F	247,000	40.2	207,778	33.9	111,475	18.2	46,296	7.5	1,071	0.2	613,620	100.0
	M+F	482,604	41.3	358,992	30.8	234,178	20.1	88,127	7.5	3,400	0.3	1,167,301	100.0

TABLE 10. MIGRANT AND NON-MIGRANT POPULATION AGED TEN YEARS AND OVER BY SEX,
AND MARITAL STATUS

Origin	Sex	SINGLE		MARRIED		WIDOWED		DIVORCED		NOT STATED		TOTAL	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Urban Migrants	Male	34,753	37.2	52,144	55.9	4,763	5.1	1,287	1.4	341	0.4	93,288	100.0
	Female	28,952	25.8	49,430	44.0	23,486	20.9	9,865	8.8	512	0.5	112,245	100.0
	Both Sexes	63,705	31.0	101,574	49.4	28,249	13.8	11,152	5.4	853	0.4	205,533	100.0
Rural Migrants	Male	60,440	34.9	99,476	57.5	9,838	5.7	2,636	1.5	753	0.4	173,143	100.0
	Female	41,703	21.9	86,646	45.6	42,357	22.3	18,230	9.6	1,085	0.6	190,021	100.0
	Both Sexes	102,143	28.1	186,122	51.3	52,195	14.4	20,866	5.7	1,838	0.5	363,164	100.0
Non-Migrants	Male	96,429	84.7	14,689	12.9	1,532	1.3	642	0.6	587	0.5	113,879	100.0
	Female	94,618	69.1	26,111	19.1	10,322	7.5	5,101	3.7	840	0.6	136,992	100.0
	Both Sexes	191,047	76.3	40,800	16.3	11,854	4.7	5,743	2.3	1,427	0.6	250,871	100.0
Total Population	Male	191,622	50.4	166,309	43.7	16,133	4.2	4,565	1.2	1,681	0.5	380,310	100.0
	Female	165,273	37.6	162,187	36.9	76,165	17.3	33,196	7.6	2,437	0.6	439,258	100.0
	Both Sexes	356,895	43.5	328,496	40.1	92,298	11.3	37,761	4.6	4,118	0.5	819,568	100.0

*It excludes foreign born persons and the not stated.

TABLE 11. MIGRANT AND NON-MIGRANT POPULATION AGED 10 YEARS AND OVER
BY HIGHEST GRADE COMPLETED AND SEX

Educational Level	Sex	URBAN MIGRANT		RURAL MIGRANT		NON-MIGRANT		TOTAL POPULATION	
		Number	%	Number	%	Number	%	Number	%
Illiterate	M	28,954	31.0	77,152	44.6	8,825	7.6	114,931	30.2
	F	74,970	66.8	150,442	79.2	33,463	24.4	258,875	58.9
	M+F	103,924	50.6	227,594	62.7	42,288	16.9	373,806	45.6
Literate having no Formal Education	M	3,482	3.7	9,160	5.3	1,492	1.3	14,134	3.7
	F	1,077	1.0	1,823	1.0	1,223	0.9	4,123	0.9
	M+F	4,559	2.2	10,983	3.0	2,715	1.1	18,257	2.2
Attending Adult Literacy Programmes	M	267	0.3	1,605	0.9	162	0.2	2,034	0.5
	F	398	0.4	796	0.4	240	0.2	1,434	0.3
	M+F	665	0.3	2,401	0.7	402	0.2	3,468	0.4
Priest or Koranic	M	10,499	11.3	18,577	10.7	3,421	3.0	32,497	8.6
	F	1,476	1.3	2,264	1.2	2,423	1.8	6,163	1.4
	M+F	11,975	5.8	20,841	5.7	5,844	2.3	38,660	4.7
Primary 1 - 6	M	19,315	20.7	34,634	20.0	50,138	44.0	104,087	27.4
	F	17,046	15.2	20,400	10.7	56,601	41.3	94,047	21.4
	M+F	36,361	17.7	55,034	15.2	106,739	42.5	198,134	24.2
Junior Secondary 7 -8	M	8,107	8.7	9,581	5.5	18,424	16.2	36,112	9.5
	F	5,574	5.0	5,374	2.8	19,185	14.0	30,133	6.9
	M+F	13,681	6.7	14,955	4.1	37,609	15.0	66,245	8.1
Senior Secondary 9-12	M	14,146	15.2	15,280	8.8	25,455	22.4	54,881	14.4
	F	8,361	7.4	6,147	3.2	19,389	14.2	33,897	7.7
	M+F	22,507	10.9	21,427	5.9	44,844	17.9	88,778	10.8
Attending Post Sec. Commercial Vocational School	M	424	0.5	334	0.2	267	0.2	1,025	0.3
	F	98	0.1	97	0.1	243	0.2	438	0.1
	M+F	522	0.3	431	0.1	510	0.2	1,463	0.2
Commercial, Technical Sec. Teachers, Post Sec. Education Completed	M	2,323	2.5	1,465	0.9	1,434	1.3	5,222	1.4
	F	1,500	1.3	835	0.4	1,703	1.2	4,038	0.9
	M+F	3,823	1.9	2,300	0.6	3,137	1.2	9,260	1.1
University Incomplete and Attending	M	1,659	1.8	1,274	0.7	1,333	1.2	4,266	1.1
	F	417	0.4	173	0.1	520	0.4	1,110	0.3
	M+F	2,076	1.0	1,447	0.4	1,853	0.7	5,376	0.7
University Certificate and Diploma	M	690	0.7	630	0.4	353	0.3	1,673	0.4
	F	165	0.1	76	0.0	93	0.1	334	0.1
	M+F	855	0.4	706	0.2	446	0.2	2,007	0.3
University Degree	M	1,908	2.0	1,132	0.7	1,000	0.9	4,040	1.1
	F	111	0.1	105	0.1	185	0.1	401	0.1
	M+F	2,019	1.0	1,237	0.4	1,185	0.5	4,441	0.5
Not Stated	M	1,506	1.6	2,253	1.3	1,552	1.4	5,311	1.4
	F	1,042	0.9	1,466	0.8	1,675	1.2	4,183	1.0
	M+F	2,548	1.2	3,719	1.0	3,227	1.3	9,494	1.2
TOTAL	M	93,280	100.0	173,077	100.0	113,856	100.0	380,213	100.0
	F	112,235	100.0	189,998	100.0	136,943	100.0	439,176	100.0
	M+F	205,515	100.0	363,075	100.0	250,799	100.0	819,389	100.0

the urban areas are better educated than their female counterparts. However, in comparison to the literacy rate of the total population of the nation, which is 12%, the migrants to the city are relatively more literate.

2. PLACE OF BIRTH

The data on place of birth depict that about 49 percent of the inhabitants are born in Addis Ababa and 51 percent are migrants. Out of the 592,970 migrants, the origin of the 404,999 persons is the rural areas, while the origin of the 187,971 is the urban areas. About 68 percent of the in-migrants reported to have been born in the rural areas, in contrast 32 percent of the migrants reported the urban areas as their place of birth. The proportion of persons born abroad was negligible.

An examination of the origin of migrants by regions (see Table 12) shows that the majority, 28 percent of the total inhabitants of the City are from Shoa, followed by in-migrants from Wollo which constituted about 6 percent of all inhabitants. In-migrants from the rest of the regions constituted about 17 percent of all inhabitants. It is to be remembered that Addis Ababa is the nation's capital as well as the capital city of the region of Shoa.

An examination of the urban migrants by regions shows the majority, about 40 percent, came from Shoa, 11 percent from Wollo, 9 percent from Eritrea, 7 percent from Tigray, 6 percent from Hararge, 5 percent from Gamo Goffa, and 22 percent of the urban in-migrants came from the rest of the regions. The majority of the urban in-migrants to the City are females, and the sex ratio is 81. Considering the in-migrants sex ratio by region, with the exception of Gamo Goffa and Wollega, female in-migrants predominate in all the regions. About 62 percent of the rural in-migrants are from Shoa region, about 12 percent from Wollo and the rest are from the other regions. The sex ratio of the rural in-migrants is 92. The sex ratio of the population born in Addis Ababa is also 92, while the over-all sex ratio for the City population is 90.

**TABLE 12. POPULATION BY PLACE OF BIRTH, SEX
AND RURAL-URBAN ORIGIN**

Place of Birth	Sex	ORIGIN OF MIGRANTS				Total Population	
		Urban		Rural		Number	%
		Number	%	Number	%		
Addis Ababa	M	-	-	-	-	271,419	49.0
	F	-	-	-	-	294,817	48.0
	M+F	-	-	-	-	566,236	48.6
Arssi	M	1,806	2.2	2,281	1.2	4,087	0.7
	F	2,079	2.0	2,421	1.1	4,500	0.7
	M+F	3,885	2.1	4,702	1.2	8,587	0.7
Bale	M	744	0.9	560	0.3	1,304	0.2
	F	1,067	1.0	753	0.4	1,820	0.3
	M+F	1,811	1.0	1,313	0.3	3,124	0.3
Gamo Goffa	M	6,924	8.2	8,176	4.2	15,100	2.7
	F	3,189	3.1	3,962	1.9	7,151	1.2
	M+F	10,113	5.4	12,138	3.0	22,251	1.9
Eritrea	M	8,393	10.0	4,075	2.1	12,468	2.3
	F	8,677	8.3	4,740	2.2	13,417	2.2
	M+F	17,070	9.1	8,815	2.2	25,885	2.2
Gojam	M	3,494	4.2	8,508	4.4	12,002	2.2
	F	5,037	4.8	11,374	5.4	16,411	2.7
	M+F	8,531	4.5	19,882	4.9	28,413	2.4
Gondar	M	3,122	3.7	7,224	3.7	10,346	1.9
	F	4,670	4.5	8,889	4.2	13,559	2.2
	M+F	7,792	4.1	16,113	4.0	23,905	2.0
Hararge	M	5,043	6.0	3,464	1.8	8,507	1.5
	F	6,153	5.9	4,126	2.0	10,279	1.7
	M+F	11,196	6.0	7,590	1.9	18,786	1.6
Illubabor	M	575	0.7	646	0.3	1,221	0.2
	F	588	0.6	468	0.2	1,056	0.2
	M+F	1,163	0.6	1,114	0.3	2,277	0.2

TABLE 12. Cont'd.

Place of Birth	Sex	ORIGIN OF MIGRANTS				Total Population	
		Urban		Rural		Number	%
		Number	%	Number	%		
Keffa	M	1,706	2.0	2,349	1.2	4,055	0.7
	F	1,774	1.7	2,827	1.3	4,601	0.7
	M+F	3,480	1.8	5,176	1.3	8,656	0.7
Shoa	M	32,383	38.6	123,218	63.6	155,601	28.1
	F	42,108	40.5	129,462	61.3	171,570	28.0
	M+F	74,491	39.6	252,680	62.4	327,171	28.0
Sidamo	M	4,124	4.9	2,670	1.4	6,794	1.2
	F	4,472	4.3	2,753	1.3	7,225	1.2
	M+F	8,596	4.6	5,423	1.3	14,019	1.2
Tigray	M	5,520	6.6	6,499	3.3	12,019	2.2
	F	8,367	8.0	8,697	4.1	17,064	2.8
	M+F	13,887	7.4	15,196	3.7	29,083	2.5
Wollega	M	2,422	2.9	4,084	2.1	6,506	1.2
	F	2,152	2.1	3,288	1.6	5,440	0.9
	M+F	4,574	2.4	7,372	1.8	11,946	1.0
Wollo	M	7,697	9.1	20,093	10.4	27,790	5.0
	F	13,685	13.2	27,392	13.0	41,077	6.7
	M+F	21,382	11.4	47,485	11.7	68,867	5.9
Foreign Countries	M	-	-	-	-	1,135	0.2
	F	-	-	-	-	1,028	0.2
	M+F	-	-	-	-	2,163	0.2
Not Stated	M	-	-	-	-	3,327	0.6
	F	-	-	-	-	2,605	0.4
	M+F	-	-	-	-	5,932	0.5
TOTAL	M	83,953	100.0	193,847	100.0	553,681	99.9
	F	104,018	100.0	211,152	100.0	613,620	100.1
	M+F	187,971	100.0	404,999	100.0	1,167,301	99.9

3. POPULATION BY PLACE OF PREVIOUS RESIDENCE

Persons who have not lived in the City continuously are asked concerning their place of previous residence. The place of previous residence of those persons who have resided in Addis Ababa continuously is recorded as Addis Ababa.

The data on Table 13 indicate that 47.5 percent of the Addis Ababa population have been living continuously in the City and 51.7 percent are in-migrants who were previously living elsewhere. A negligible proportion, 0.8 percent did not state their place of previous residence. About 27 percent of the inhabitants were previously living in Shewa region, about 6 percent in Wollo region, and small proportion of the residents were previously living in the other regions.

A cross tabulation of place of previous residence data with place of birth shows that the in-migrants before coming to the City were previously residing in places other than their place of birth and some of those born in Addis Ababa had moved out to other places and returned to the City. As given in Table 14 out of 566,236 persons born in Addis Ababa, 554,297 reported as living in Addis Ababa up to the survey time and the difference 11,939 persons were return migrants (that is persons who were born in the City that migrated to some other places but have returned to the City) Considering the in-migrants, 404,999 persons reported as being born in the rural areas, while 380,064 persons reported as previously resided in the rural areas before coming to the City. This implies that 24,935 persons had migrated to some other urban areas and might have lived there for sometime before coming to the City. In fact these in-migrants may have made several migratory moves before coming to the City. On the contrary only 187,971 persons reported as being born in urban areas other than Addis Ababa, but 220,651 persons reported as previously living in urban areas.

The difference 32,690 persons represents some of the immigrants from the rural areas, and possibly the return migrants who had moved to the urban areas before migrating to the City.

TABLE 13. POPULATION BY PLACE OF PREVIOUS RESIDENCE,
SEX AND RURAL-URBAN RESIDENCE

Place of Previous Residence	Sex	RESIDENCE				Total Population	
		Urban		Rural		Number	%
		Number	%	Number	%		
Addis Ababa	Male	-	-	-	-	265,048	47.9
	Female	-	-	-	-	289,249	47.1
	Both	-	-	-	-	554,297	47.5
Arssi	Male	1,988	2.0	2,501	1.4	4,489	0.8
	Female	2,525	2.1	2,547	1.3	5,072	0.8
	Both	4,513	2.1	5,048	1.3	9,561	0.8
Bale	Male	1,317	1.3	430	0.2	1,747	0.3
	Female	1,297	1.1	691	0.3	1,988	0.3
	Both	2,614	1.2	1,121	0.3	3,735	0.3
Eritrea	Male	10,990	10.9	3,894	2.2	14,884	2.7
	Female	10,906	9.1	4,378	2.2	15,284	2.5
	Both	21,896	9.9	8,272	2.2	30,168	2.6
Gamo Goffa	Male	8,810	8.7	8,055	4.5	16,865	3.0
	Female	4,849	4.0	3,817	1.9	8,666	1.4
	Both	13,659	6.2	11,872	3.1	25,531	2.2
Gojjam	Male	3,546	3.5	8,150	4.5	11,696	2.1
	Female	5,584	4.7	11,233	5.6	16,817	2.8
	Both	9,130	4.1	19,383	5.1	28,513	2.4
Gondar	Male	3,560	3.5	6,550	3.6	10,110	1.8
	Female	4,692	3.9	8,661	4.3	13,353	2.2
	Both	8,252	3.7	15,211	4.0	23,463	2.0
Hararge	Male	7,744	7.7	4,387	2.4	12,131	2.2
	Female	8,149	6.8	4,693	2.4	12,842	2.1
	Both	15,893	7.2	9,080	2.4	24,973	2.1

TABLE 13. (Cont's.)

Place of Previous Residence	Sex	RESIDENCE				Total Population	
		Urban		Rural		Number	%
		Number	%	Number	%		
Illubabor	Male	821	0.8	664	0.4	1,485	0.3
	Female	751	0.6	519	0.3	1,270	0.2
	Both	1,572	0.7	1,183	0.3	2,755	0.2
Keffa	Male	2,745	2.7	3,058	1.7	5,803	1.0
	Female	2,467	2.1	3,241	1.6	5,708	0.9
	Both	5,212	2.4	6,299	1.6	11,511	1.0
Shoa	Male	36,245	36.0	113,043	62.5	149,288	27.0
	Female	45,693	38.1	121,721	61.1	167,414	27.3
	Both	81,938	37.1	234,764	61.8	316,702	27.1
Sidamo	Male	5,744	5.7	3,088	1.7	8,832	1.6
	Female	5,947	5.0	3,293	1.7	9,240	1.5
	Both	11,691	5.3	6,381	1.7	18,072	1.6
Tigray	Male	5,563	5.5	5,437	3.0	11,000	2.0
	Female	8,439	7.0	6,969	3.5	15,408	2.5
	Both	14,002	6.4	12,406	3.3	26,408	2.3
Wollega	Male	2,684	2.7	3,598	2.0	6,282	1.1
	Female	2,400	2.0	3,276	1.6	5,676	0.9
	Both	5,084	2.3	6,874	1.8	11,958	1.0
Wollo	Male	9,023	9.0	17,969	9.9	26,992	4.9
	Female	16,172	13.5	24,201	12.2	40,373	6.6
	Both	25,195	11.4	42,170	11.1	67,365	5.8
Foreign Countries	Male	-	-	-	-	1,970	0.4
	Female	-	-	-	-	1,205	0.2
	Both	-	-	-	-	3,175	0.3
Not Stated	Male	-	-	-	-	5,059	0.9
	Female	-	-	-	-	4,055	0.7
	Both	-	-	-	-	9,114	0.8
TOTAL	Male	100,780	100.0	180,824	100.0	553,681	100.0
	Female	119,871	100.0	199,240	100.0	613,620	100.0
	Both	220,651	100.0	380,064	100.0	1,167,301	100.0

TABLE 14. COMPARISON OF THE DISTRIBUTION OF POPULATION BY SEX, PLACE OF BIRTH AND PLACE OF PREVIOUS RESIDENCE

Place	Sex	Place of birth (1)	Place of previous residence (2)	Difference between place of birth and place of previous residence (3)=1-2
Addis Ababa	Male	271,419	265,048	6,371
	Female	294,817	289,249	5,568
	Both	566,236	554,297	11,939
Rural Areas	Male	193,847	180,824	13,023
	Female	211,152	199,240	11,912
	Both	404,999	380,064	24,935
Urban Areas	Male	83,953	100,780	-16,827
	Female	104,018	119,871	-15,853
	Both	187,971	220,651	-32,680
Abroad	Male	1,135	1,970	-835
	Female	1,028	1,205	-177
	Both	2,163	3,175	-1,012

Comparison between the 1967 and 1978 sample survey results on place of birth are given below.

<u>Place of Birth</u>	<u>1967</u>	<u>1978</u>
Addis Ababa	44 Percent	48.6 Percent
Shoa	33 "	28.0 "
Other Regions	21 "	22.8 "
Abroad	2 "	0.1 "
Not Stated	-	0.5 "

The comparison shows an increase in the proportion of non-migrants, decline in the proportion of in-migrants from Shoa region, a slight increase in the proportion of in-migrants from the other regions, and a decline in the proportion of persons born abroad.

III - LITERACY AND EDUCATIONAL ATTAINMENT

1. LITERACY

The question on literacy was asked for persons aged 10 years and over. A person is considered as literate, if he or she can read and write a statement concerning his or her daily life in any language. Persons aged ten years and over are classified into three categories according to the response to the question on literacy: literate (those who are able to read and write), read only, illiterate (unable to read and write).

The total population ten years and over is 827,758, of whom 445,060 are literate, 13,200 can only read and 362,420 are illiterate. About 54 percent of the total population are literate and those who only read constitute about two percent. The total male population aged ten years and over is 385,297 of whom 266,680 are literate, 7,664 can only read and 107,843 are illiterate. There are 442,402 females aged ten years and over of whom 178,373 are literate, 5,541 can only read and 254,577 are illiterate. About 69 percent of the males are literate in contrast with 40 percent of the females. Two percent of the males and 1.3 percent of the females can only read (For detail see Tables 15-17).

Analysis of literacy rate by age shows that literacy rate is high in the young ages especially in the age group 10-19 and subsequently declines with advancing ages. At the age group 10-14, 84 percent of the males and 78 percent of the females are literate. Male literacy rates by age group are considerably higher than that of the females.

The percentage literate has shown an increase since 1961. The percentage literate that was 39 percent in 1961 has increased to 43 percent in 1967 and 54 percent in 1978. During the period of 1961 to 1978, the female literacy rates have grown considerably compared with the males. Male literacy

TABLE 15. MALE POPULATION AGED TEN YEARS AND OVER BY AGE GROUP, AND LITERACY

Age Group	Literate		Read Only		Illiterate		Not Stated		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%
10 - 14	56,615	84.2	483	0.7	9,430	14.0	692	1.0	67,220	99.9
15 - 19	47,992	80.1	529	0.9	11,053	18.5	303	0.5	59,877	100.0
20 - 24	34,755	77.2	590	1.3	9,489	21.1	178	0.4	45,012	100.0
25 - 29	31,608	68.2	1,054	2.3	13,392	28.9	271	0.6	46,325	100.0
30 - 34	25,589	66.4	980	2.5	11,794	30.6	152	0.4	38,515	99.9
35 - 39	23,192	63.2	955	2.6	12,373	33.7	178	0.5	36,698	100.0
40 - 44	17,106	59.9	798	2.8	10,576	37.0	98	0.3	28,578	100.0
45 - 49	10,778	57.0	762	4.0	7,352	38.9	20	0.1	18,912	100.0
50 - 54	5,765	48.5	390	3.3	5,660	47.7	61	0.5	11,876	100.0
55 - 59	4,014	49.3	272	3.3	3,854	47.3	-	-	8,140	99.9
60 - 64	3,627	44.1	326	4.0	4,213	51.2	58	0.7	8,224	100.0
65 - 69	1,911	37.0	211	4.1	2,989	57.9	51	1.0	5,162	100.0
70 - 74	1,413	36.7	110	2.8	2,297	59.6	35	0.9	3,855	100.0
75 - 79	753	39.8	83	4.4	1,057	55.8	-	-	1,893	100.0
80 - 84	387	26.8	35	2.4	1,000	69.3	22	1.5	1,444	100.0
85 & Over	298	24.1	51	4.1	850	68.7	38	3.1	1,237	100.0
Not Stated	884	38.0	35	1.5	464	19.9	1005	40.6	2,388	100.0
TOTAL	266,687	69.2	7,664	2.0	107,843	28.0	3,162	0.8	385,356	100.0

TABLE 16. FEMALE POPULATION AGED TEN YEARS AND OVER BY AGE GROUP, AND LITERACY

Age Group	Literate		Read Only		Illiterate		Not Stated		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%
10 - 14	59,167	78.1	529	0.7	14,810	19.5	1,276	1.7	75,782	100.0
15 - 19	55,211	66.4	536	0.6	26,813	32.2	591	0.7	83,151	99.9
20 - 24	28,485	45.5	700	1.1	33,183	53.0	268	0.4	62,636	100.0
25 - 29	17,553	28.3	1,131	1.8	43,001	69.4	306	0.5	61,991	100.0
30 - 34	7,601	20.5	685	1.8	28,601	77.2	147	0.4	37,034	100.0
35 - 39	5,294	15.4	706	2.1	28,228	82.1	155	0.4	34,383	100.0
40 - 44	1,888	7.7	348	1.4	22,091	90.5	83	0.3	24,410	99.9
45 - 49	1,318	8.4	345	2.2	13,918	88.9	67	0.4	15,648	99.9
50 - 54	653	5.4	134	1.1	11,157	92.6	110	0.9	12,054	100.0
55 - 59	300	3.3	138	1.5	8,526	94.4	68	0.8	9,032	100.0
60 - 64	298	3.0	102	1.0	9,249	94.2	172	1.8	9,821	100.0
65 - 69	165	2.7	116	1.9	5,793	94.2	74	1.2	6,148	100.0
70 - 74	153	3.5	28	0.6	4,205	94.9	44	1.0	4,430	100.0
75 - 79	9	0.5	10	0.6	1,656	98.9	-	-	1,675	100.0
80 - 84	50	2.6	25	1.3	1,761	92.9	60	3.2	1,896	100.0
85 & Over	39	3.1	8	0.6	1,159	93.5	34	2.7	1,240	99.9
Not Stated	189	17.6	-	-	426	39.8	456	42.6	1,071	100.0
TOTAL	178,373	40.3	5,541	1.3	254,577	57.5	3,911	0.9	442,402	100.0

TABLE 17. POPULATION AGED TEN YEARS AND OVER BY AGE GROUP, AND LITERACY (BOTH SEXES)

Age Group	Literate		Read Only		Illiterate		Not Stated		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%
10 - 14	115,782	81.0	1,012	0.7	24,240	16.9	1,968	1.4	143,002	100.0
15 - 19	103,203	72.2	1,065	0.7	37,866	26.5	894	0.6	143,028	100.0
20 - 24	63,240	58.7	1,290	1.2	42,672	39.6	446	0.4	107,648	99.9
25 - 29	49,161	45.4	2,185	2.0	56,393	52.1	577	0.5	108,316	100.0
30 - 34	33,190	43.9	1,665	2.2	40,395	53.5	299	0.4	75,549	100.0
35 - 39	28,486	40.1	1,661	2.3	40,601	57.1	333	0.5	71,081	100.0
40 - 44	18,994	35.8	1,146	2.2	32,667	61.6	181	0.3	52,988	99.9
45 - 49	12,096	35.0	1,107	3.2	21,270	61.5	87	0.3	34,560	100.0
50 - 54	6,418	26.8	524	2.2	16,817	70.3	171	0.7	23,930	100.0
55 - 59	4,314	25.1	410	2.4	12,380	72.1	68	0.4	17,172	100.0
60 - 64	3,925	21.7	428	2.4	13,462	74.6	230	1.3	18,045	100.0
65 - 69	2,076	18.4	327	2.9	8,782	77.6	125	1.1	11,310	100.0
70 - 74	1,566	18.9	138	1.7	6,502	78.5	79	0.9	8,285	100.0
75 - 79	762	21.4	93	2.6	2,713	76.0	-	-	3,568	100.0
80 - 84	437	13.1	60	1.8	2,761	82.7	82	2.4	3,340	100.0
65 & Over	337	13.6	59	2.4	2,009	81.1	72	2.9	2,477	100.0
Not Stated	1,073	31.6	35	1.0	890	26.2	1,461	41.2	3,459	100.0
TOTAL	445,060	53.8	13,205	1.6	362,420	43.8	7,073	0.8	827,758	100.0

rate which was about 57 percent in 1961 rose to 61 percent in 1967 and 69 percent in 1978. Female literacy rate which was 19 percent in 1961 rose to 26 percent in 1967 and 40 percent in 1978.

2. EDUCATIONAL ATTAINMENT

The distribution of the literate persons by highest grade completed is given in Table 18. Twenty five categories of educational level are used. Those who have never been to school but who were literate (including self educated and tutored at home) or had been to school but did not complete grade one were classified as literate but having no formal education. Thus there are 18,332 persons with no formal education but who are literate. The other categories of literates are 3,514 persons who have undergone through adult literacy programmes, and 38,956 persons who have either attended priest or koranic schools. About 45 percent of the literate population (198,821) have completed primary grades 1 to 6; 20 percent (89,861) have completed senior secondary, grades 9 to 12; 15 percent (66,569) have completed junior secondary, grades 7 to 8; about 9 percent (38,956) have learned in koranic or priest schools, about 5 percent (21,846) are literates but with no formal education, 3 percent (14,294) have university or post secondary education, and 2 percent (9,514) have attended or completed either commercial, vocational, technical or secondary teachers training schools or institutions.

A higher proportion of the females, 53 percent in contrast with 39 percent males, have completed primary; 17 percent females compared with 14 percent males have completed junior secondary and an equal proportion of males and females have completed senior secondary. A higher proportion of the males than the females have attended priest or koranic schools; had no formal education but literate and had university education. It means more females as males are not further pursuing their secondary and university education. In terms of absolute figures, the table clearly shows that more males than females had been to formal and informal education.

TABLE 18. LITERATE POPULATION AGED TEN YEARS AND OVER BY SEX AND HIGHEST GRADE COMPLETED

Highest Grade Completed	Male		Female		Both Sexes	
	Number	%	Number	%	Number	%
Literate (but having no formal education)	14,220	5.3	4,112	2.3	18,332	4.1
Attended adult literacy programme	2,080	0.8	1,434	0.8	3,514	0.8
Priest or koranic schools	32,789	12.3	6,167	3.4	38,956	8.8
Primary, grade 1	5,294	2.0	6,630	3.7	11,924	2.7
Primary, grade 2	12,722	4.8	11,712	6.6	24,434	5.5
Primary, grade 3	17,815	6.7	16,356	9.2	34,171	7.7
Primary, grade 4	20,579	7.7	17,626	9.9	38,205	8.6
Primary, grade 5	21,991	8.2	18,843	10.6	40,834	9.2
Primary, grade 6	26,131	9.8	23,122	13.0	49,251	11.1
Primary, grades 1 to 6	104,532	39.2	94,289	52.9	198,821	44.7
Junior sec., grade 7	15,528	5.8	13,249	7.4	28,777	6.5
Grade 8	20,777	7.8	17,015	9.5	37,792	8.5
Junior sec., grades 7 to 8	36,305	13.6	30,264	17.0	66,569	15.0
Senior sec., grade 9	12,170	4.5	8,489	4.8	20,659	4.6
Senior sec., grade 10	12,777	4.8	8,869	5.0	21,646	4.9
Senior sec., grade 11	11,279	4.2	7,768	4.4	19,047	4.3
Senior sec., grade 12	19,185	7.2	9,144	5.1	28,329	6.4
Senior sec., grades 9 to 12	55,411	20.8	34,270	19.2	89,681	20.2

TABLE 18. (Cont'd)

Highest Grade Completed	Male		Female		Both Sexes	
	Number	%	Number	%	Number	%
Attending post sec., commercial and Voc. schools	1,039	0.4	438	0.2	1,477	0.3
Commercial, technical sec. schools	3,379	1.3	3,418	1.9	6,767	1.5
Secondary teachers education	876	0.3	364	0.2	1,240	0.3
Post secondary education	1,082	0.4	312	0.2	1,894	0.3
Attending University	2,831	1.1	922	0.5	3,753	0.8
University incomplete	1,541	0.6	228	0.1	1,769	0.4
Obtained university certificate	169	0.1	17	0.0	186	0.0
Obtained university Diploma	1,583	0.6	340	0.2	1,923	0.4
Awarded BA., B.Sc.	3,452	1.3	344	0.2	3,796	0.8
Awarded MA, Ph.D.	1,343	0.5	130	0.1	1,473	0.3
Not Stated	4,055	1.5	1,324	0.7	5,379	1.2
TOTAL	266,687	100.0	178,373	100.0	445,060	100.0

IV - LABOUR FORCE

Questions on economic activity during the reference week were asked to persons aged ten years and over. From the responses to the number of days worked during last week and for those who have not worked at all or worked only for one day, from the response for not working, it was possible to classify the population into economically active and inactive.* Employed persons consisted of those who worked for 2 to 7 days during the reference period, and those who had job but did not work during the reference period because they were on leave, ill,.....etc. The number of persons who worked for 2 to 7 days are 350,803 and those who had job but did not work are 6,899. Thus, the total number of employed persons in the City are 357,701. The unemployed or persons looking for job during the reference week are 27,309. The employed and unemployed persons make up the labour force or economically active persons and thus the size of the labour force is 385,010. Those who are not engaged in the production of economic goods and services are called the economically inactive population. The number of economically inactive persons was 437,067. The activity status of persons aged ten years and over is summarized in Table 19.

The categories of economically inactive persons include home makers, students, pensioners, too old, too young, un-earned income recipients, physically disabled and others.

As of September 1978, the population aged ten years and over are 827,758 of which 47 percent (385,010) are economically active and 53 percent (437,067) are economically inactive. Thus 43.2 percent and 3.3 percent of the total population aged ten years and over, are made up of employed and unemployed persons, respectively. The rate of unemployment is defined as a ratio of the number of unemployed

persons to the total labour force. The unemployment rate so derived is 7 percent, indicating that 7 percent of the labour force is unemployed.

The labour force consists of 251,891 males and 133,119 females. Females constitute 35 percent of the City's labour force. It is worth noting that participation of females in economic activity has increased since 1967 for in 1967 females constituted only 26 percent of the labour force.

TABLE 19. POPULATION AGED TEN YEARS AND OVER BY SEX AND ACTIVITY STATUS

Activity Status	Male		Female		Both Sexes	
	Number	%	Number	%	Number	%
1. Economically active/Labour Force	251,891	65.4	133,119	30.1	385,010	46.5
a. Employed	240,101	62.3	117,600	26.6	357,701	43.2
Worked last week	235,169	61.0	115,634	26.2	350,803	42.4
Had job but not worked	4,933	1.3	1,966	0.4	6,899	0.8
b. Unemployed	11,790	3.1	15,519	3.5	27,309	3.3
2. Economically in-active	130,491	33.9	306,576	69.3	437,067	52.8
a. Home maker	1,023	0.3	140,822	31.8	141,845	17.1
b. Student	96,783	25.1	103,822	23.5	200,605	24.2
c. Too young	3,209	0.8	5,832	1.3	9,041	1.1
d. Too old	4,077	1.1	14,374	3.2	18,451	2.2
e. Physically disabled	5,207	1.4	4,909	1.1	10,116	1.2
f. Unearned income recipient	5,069	1.3	19,351	4.4	24,420	3.0
g. Pensioned	12,152	3.1	6,457	1.5	18,609	2.3
g. Other	2,971	0.8	11,009	2.5	13,980	1.7
3. Not Stated	2,974	0.7	2,707	0.6	5,681	0.7
TOTAL	385,297	100.0	442,402	100.0	827,758	100.0

1. ECONOMICALLY ACTIVE AND INACTIVE POPULATION

The population aged ten years and over are classified as economically active if they had worked for at least one - third of the reference period, and economically in-active if they had not worked at all, or had worked only for less than one third of the reference period. As already noted, the economically active population or the labour force consist of the employed and unemployed persons. The home-maker engaged in unpaid domestic duties, students, pensioners, etc, make up the economically in-active population. The distribution of the population by age group classified on the basis of employed, unemployed and economically inactive is presented in Tables 20 - 22. The percentage distribution of the employed population by age group as set out in the Tables 20 - 22 represent the age-specific activity rates of the working population (those who worked for at least one third of the reference period for pay or profit). It should be noted that the participation of the population in production of economic goods and services is measured by the ratio of the economically active population or working population to the total population, usually computed with reference to a given sex - age group. Such ratio is called the activity rate or labour force participation rate. We have computed age specific activity rates using the formula:

$$Pr = \frac{Ex}{Px} \times 100$$

Where:

Pr = participation rate in age group x ;

Ex = number of economically active persons in age group x;

Px = total population in age group x.

TABLE 20. ECONOMICALLY ACTIVE AND IN-ACTIVE MALE POPULATION BY AGE GROUP

Age Group	Economically active pop.				Economically inactive Pop.		Not Stated		Total Population	
	Employed		unemployed		Number	%	Number	%	Number	%
	Number	%	Number	%						
10 - 14	8,176	12.1	445	0.7	57,299	85.2	1,359	2.0	67,279	100.0
15 - 19	23,047	38.5	2,419	4.0	33,900	56.6	511	0.9	59,877	100.0
20 - 24	31,511	70.0	3,010	6.7	10,104	22.4	387	0.9	45,012	100.0
25 - 29	41,257	89.1	2,060	4.4	2,853	6.2	155	0.3	46,325	100.0
30 - 34	35,714	92.7	1,084	2.8	1,565	4.1	152	0.4	38,515	100.0
35 - 39	34,280	93.4	791	2.2	1,440	3.9	176	0.5	36,687	100.0
40 - 44	26,121	91.4	714	2.5	1,727	6.0	27	0.1	28,589	100.0
45 - 49	16,565	87.4	465	2.5	1,923	10.1	-	-	18,953	100.0
50 - 54	8,991	75.7	412	3.5	2,431	20.5	42	0.3	11,876	100.0
55 - 59	4,830	59.4	190	2.3	3,120	38.3	-	-	8,140	100.0
60 - 64	3,960	49.2	105	1.3	4,070	49.5	89	1.1	8,224	100.0
65 +	4,363	31.4	58	0.4	9,118	67.1	52	0.4	13,591	100.0
Not Stated	1,286	55.0	37	1.6	941	40.1	83	3.5	2,347	100.0
TOTAL	240,101	62.3	11,790	3.1	130,491	33.9	3,033	0.7	385,425	100.0

TABLE 21. ECONOMICALLY ACTIVE AND IN-ACTIVE FEMALE POPULATION BY AGE GROUP

Age Group	Economically active Pop.				Economically inactive Pop.		Not Stated		Total Population	
	Employed		Unemployed		Number	%	Number	%	Number	%
	Number	%	Number	%						
10 - 14	7,086	9.3	1,136	1.5	65,765	86.8	1,795	2.4	75,782	100.0
15 - 19	25,484	30.6	5,405	6.5	51,186	61.6	1,076	1.3	83,151	100.0
20 - 24	23,563	37.6	4,287	6.8	34,175	54.6	611	1.0	62,636	100.0
25 - 29	20,766	33.5	2,189	3.5	38,689	62.4	347	0.6	61,991	100.0
30 - 34	11,257	30.4	1,029	2.8	24,534	66.2	214	0.6	37,034	100.0
35 - 39	9,676	28.1	569	1.7	24,056	70.0	82	0.2	34,383	100.0
40 - 44	6,903	28.3	483	2.0	16,796	68.8	228	0.9	24,410	100.0
45 - 49	4,306	27.5	216	1.4	11,124	71.0	18	0.1	15,664	100.0
50 - 54	3,026	25.1	61	0.5	8,943	74.2	24	0.2	12,054	100.0
55 - 59	1,904	21.1	26	0.3	7,029	77.8	73	0.8	9,032	100.0
60 - 64	1,878	19.1	27	0.3	7,846	79.9	70	0.7	9,821	100.0
65 +	1,474	9.6	52	0.3	13,773	89.5	90	0.6	15,389	100.0
Not Stated	277	25.5	39	3.6	769	70.9	-	-	1,085	100.0
TOTAL	117,600	26.6	15,519	3.5	304,685	68.9	4,628	1.0	442,432	100.0

**TABLE 22. ECONOMICALLY ACTIVE AND IN-ACTIVE POPULATION BY AGE GROUP
(BOTH SEXES)**

Age Group	Economically active pop.				Economically inactive Pop.		Not Stated		Total Population	
	Employed		Unemployed		Number	%	Number	%	Number	%
	Number	%	Number	%						
10 - 14	15,262	10.7	1,581	1.1	123,064	86.0	3,154	2.2	143,061	100.0
15 - 19	48,531	33.9	7,824	5.5	85,085	59.5	1,587	1.1	143,028	100.0
20 - 24	55,074	51.2	7,297	6.8	44,279	41.1	998	0.9	107,648	100.0
25 - 29	62,023	57.3	4,249	3.9	41,542	38.3	502	0.5	108,316	100.0
30 - 34	46,971	62.2	2,113	2.8	26,099	34.5	366	0.5	75,549	100.0
35 - 39	43,956	61.8	1,360	1.9	25,496	35.9	258	0.4	71,070	100.0
40 - 44	33,024	62.8	1,197	2.3	18,523	34.9	255	0.5	52,999	100.0
45 - 49	20,871	60.3	681	2.0	13,047	37.7	18	0.0	34,617	100.0
50 - 54	12,017	50.2	473	2.0	11,374	47.5	66	0.3	23,930	100.0
55 - 59	6,734	39.2	216	1.3	10,149	59.1	73	0.4	17,172	100.0
60 - 64	5,838	32.4	132	0.7	11,916	66.1	159	0.9	18,045	100.0
65 +	5,837	20.1	110	0.4	22,891	79.0	142	0.5	28,980	100.0
Not Stated	1,563	45.6	76	2.2	1,710	49.8	136	2.4	3,349	100.0
TOTAL	357,701	43.2	27,309	3.3	435,176	52.6	7,572	0.9	827,758	100.0

The examination of the age-specific activity rate reveals that 12 percent of the males are active at the age group 10-14, about 39 percent at the age group 15-19, 70 percent at the age group 20-24, 89 percent at the age group 25-29, 93 percent each at the age group 30-34 and 35-39, and 91 percent at the age group 40-44 and thereafter the activity rates decline rapidly and drops to 31 percent at the age group 65 years and over. The percentage of inactive males is considerable at the young ages of 10-19 and old ages of 50 and over. In contrast with the males, the age-specific activity rate of the females are considerably lower. Female participation in economic activity are highest at the age interval 15-44 years, and the activity rates in this interval range between 28 and 38 percent. About 75 percent of the females under 15 years of age and those over 50 years are economically in-active.

2. EMPLOYED PERSONS BY MARITAL STATUS

Marital status of the employed population reveals that the proportion of married males to be higher.

TABLE 23. EMPLOYED PERSONS AGED TEN YEARS AND OVER BY SEX AND MARITAL STATUS

Marital Status	POPULATION					
	Male		Female		Both Sexes	
	Number	%	Number	%	Number	%
Single	77,551	33.0	39,298	33.9	116,849	33.3
Married	143,187	60.9	25,748	22.3	168,935	48.2
Widowed	11,532	4.9	41,270	35.6	52,802	15.0
Divorced	2,103	0.9	8,651	7.5	10,754	3.1
Not Stated	779	0.3	783	0.7	1,562	0.4
TOTAL	235,152	100.0	115,650	100.0	350,802	100.0

The most noticeable feature in the data is high proportion of widowed females. Less than one-fourth of the females engaged in the production of goods and services are married. From Table 23 it can be learned that most wives of the employed males are home-makers.

3. EMPLOYMENT STATUS

The data on employment status presented in Table 24 depict that a higher proportion of the economically active population are employees. Proportion of male and female employees are about 69 and 73 percent of employed males and females respectively. Own account workers constitute about 19 percent of the employed males and 16 percent of the females. The status of the remaining employed males are about 5 percent employers, 3 percent unpaid family workers and 4 percent of them are classified as other status. The balance of the employed females, consists of about 5 percent unpaid family workers, 3 percent employers, and 4 percent are classified as other status.

TABLE 24. EMPLOYED PERSONS AGED TEN YEARS AND OVER BY SEX AND STATUS

Employment Status	POPULATION					
	Male		Female		Both Sexes	
	Number	%	Number	%	Number	%
Employer	12,141	5.2	3,433	3.0	15,574	4.5
Employee	163,001	69.3	83,764	72.5	246,765	70.4
Own Account Worker	44,547	18.9	18,587	16.1	63,134	18.0
Unpaid family Worker	6,802	2.9	5,275	4.5	12,077	3.4
Others	8,677	3.7	4,575	3.9	13,252	3.7
TOTAL NUMBER	235,168	100.0	115,634	100.0	350,802	100.0
Percent		67.0		33.0		100.0

Relative distribution of employment status in Addis Ababa in 1967 was:

<u>Status</u>	<u>Male</u>	<u>Female</u>
Employer	3.5	3.4
Employee	69.1	62.1
Own account worker	17.5	22.3
Unpaid family worker	2.1	3.4;
Other	7.8	8.8
Total	100.0	100.0

The proportion of female employees has increased by about 10 percentage points from 1967 to 1978, while the proportion of male employees has remained virtually the same during the period.

4. OCCUPATION AND EMPLOYMENT STATUS

Cross-classification of the economically active population by occupation and status is given in Table 25. Nearly 40 percent of the male and 45 percent of the female employers have their occupation reported as sales workers. About 28 percent of the female employers have reported their occupation as service workers. However, most of the male employers (46 percent) are in production and related works, nonetheless the proportion of production and related female employers can not also be undermined.

The female employees constitute about 71 percent of service workers, 11 percent are in clerical and related works, 10 percent in production and related works, 5 percent in professional and technical works, 2 percent in sales and insignificant proportion of the female employees are in administrative, managerial and agricultural occupations. The bulk of the male employees are in the occupation of production and related works, followed by services, professional and technical, clerical and related works and sales work.

The overwhelming majority of the own account and unpaid family workers are in the sales, service and production works occupation groups.

TABLE 25. EMPLOYED PERSONS AGED TEN YEARS AND OVER BY SEX, STATUS AND OCCUPATION

Occupation	Sex	Employer		Employee		Own Account Worker		Unpaid Family Worker		Other		Total	
		Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Professional and Technical	M	448	3.7	17,657	10.8	898	2.0	48	0.7	347	4.0	19,398	8.2
	F	56	1.6	4,517	5.4	310	1.7	25	0.5	25	0.5	4,933	4.3
	M+F	504	3.2	22,174	9.0	1,208	1.9	73	0.6	372	2.8	24,331	6.9
Administrative managerial	M	104	0.8	1,419	0.9	-	-	-	-	21	0.2	1,544	0.7
	F	11	0.3	31	0.0	-	-	-	-	31	0.7	73	0.1
	M+F	115	0.7	1,450	0.6	-	-	-	-	32	0.4	1,617	0.5
Clerical and related	M	190	1.6	15,933	9.8	221	0.5	153	2.3	400	4.6	16,897	7.2
	F	45	1.3	9,306	11.2	42	0.2	94	1.8	135	2.9	9,622	8.3
	M+F	235	1.5	25,239	10.2	263	0.4	247	2.1	535	4.1	26,519	7.6
Sales workers	M	4,807	39.6	7,874	4.8	15,381	34.5	2,641	38.8	425	4.9	31,128	13.2
	F	1,545	45.0	1,698	2.0	8,233	44.3	925	17.5	305	6.7	12,706	11.0
	M+F	6,352	40.8	9,572	3.9	23,614	37.5	3,566	29.5	730	5.5	43,834	12.5
Service workers	M	883	7.3	46,025	28.2	8,509	19.1	633	9.3	2,539	29.5	58,589	24.9
	F	969	28.3	59,575	71.1	2,356	12.7	2,205	41.8	1,573	34.4	66,678	57.7
	M+F	1,852	11.9	105,600	42.8	10,865	17.2	2,838	23.5	4,112	31.0	125,267	35.7

TABLE 25. (Cont'd.)

Occupation	Sex	Employer		Employee		Own Account Worker		Unpaid Family Worker		Other		Total	
		Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Agriculture and related workers	M	117	1.0	2,615	1.6	248	0.6	270	4.0	168	1.9	3,418	1.5
	F	20	0.6	169	0.2	18	0.1	27	0.5	-	-	234	0.2
	M+F	137	0.9	2,784	1.1	266	0.4	297	2.5	168	1.3	3,652	1.0
Production and related workers	M	5,592	46.0	71,337	43.8	19,213	43.1	3,002	44.1	3,658	42.2	102,802	43.7
	F	787	22.9	8,225	9.8	7,575	40.7	1,783	33.8	640	14.0	19,010	16.4
	M+F	6,379	41.0	79,562	32.2	26,788	42.4	4,785	39.6	4,298	32.4	121,812	34.7
Not Stated	M	-	-	141	0.1	77	0.2	55	0.8	1,119	12.9	1,392	0.6
	F	-	-	243	0.3	53	0.3	216	4.1	1,866	40.8	2,378	2.0
	M+F	-	-	384	0.2	130	0.2	271	2.2	2,985	22.5	3,770	1.1
TOTAL	M	12,141	100.0	163,001	100.0	44,547	100.0	6,802	100.0	8,677	100.0	235,168	100.0
	F	3,433	100.0	83,764	100.0	18,587	100.0	5,275	100.0	4,575	100.0	115,634	100.0
	M+F	15,574	100.0	246,765	100.0	63,134	100.0	12,077	100.0	13,252	100.0	350,802	100.0

5 - EDUCATIONAL QUALIFICATION OF EMPLOYED PERSONS

The employed persons are cross classified by educational level and major occupation. The data on Table 26 indicate that about 49 percent of the employed persons are illiterate, 4 percent can read and write but had no formal education, 8 percent had been to priest or koranic schools, 17 percent had primary education, 6 percent had junior secondary education, 10 percent had senior secondary education, 2 percent had completed commercial or post secondary education, and about 2 percent had some form of university education.

An examination of the educational level of employed persons by major occupational classification shows wide variation. The proportionate illiterate is high among service workers, agriculture and related workers, workers with unclassified occupation and production and related workers. Among these occupational groups illiteracy rate ranges from 70 percent to 42 percent. The literacy is highest among the professional and technical workers, administrative and managerial and clerical and related workers. These same workers also had better educational qualifications. The proportion of employed persons having secondary or higher education is 77 percent of the administrative and managerial workers, 62 percent of the professional and technical workers, and 60 percent of the clerical and related workers. The percentage of employed persons in the rest of the occupational categories having senior secondary or higher education is less than 10 percent of the total employed in the particular categories.

6 - UNEMPLOYED PERSONS BY MARITAL STATUS

The Survey estimated the unemployed persons in the City at 27,309 persons of whom 11,790 are males and 15,519 are females. The proportion of unemployed females is 57 percent as compared to 43 percent males. The unemployed

TABLE 26. EMPLOYED PERSONS AGED 10 YEARS AND OVER BY EDUCATIONAL LEVEL AND OCCUPATION

Educational Level	O C C U P A T I O N								Total
	Profes- sional and Technical	Adminis- trative and Managerial	Clerical and Related	Sales Workers	Service Workers	Agricul- ture and Related	Produc- tion and Related Workers	Workers not Classi- fied	
Illiterate Number Percent	1,275 5.2	32 2.0	1,363 5.1	24,982 57.0	87,845 70.1	2,182 59.7	51,526 42.3	1,976 52.4	171,181 48.8
Literate (No formal Education) Number Percent	826 3.4	11 0.7	487 1.8	1,729 4.0	3,309 2.6	103 2.8	5,982 4.9	203 5.4	12,650 3.6
Adult Literacy Number Percent	68 0.3	- -	35 0.1	149 0.3	1,016 0.8	38 1.0	797 0.7	11 0.3	2,114 0.6
Priest or Koranic Number Percent	1,933 7.8	75 4.8	1,108 4.2	3,555 8.1	7,605 6.1	264 7.3	11,836 9.7	101 2.7	26,477 7.5
Grades 1 - 6 Number Percent	1,968 8.1	91 5.6	3,311 12.5	7,131 16.3	17,924 14.3	466 12.8	28,127 23.1	637 16.9	59,655 17.5
Grades 7 - 8 Number Percent	1,998 8.2	57 3.6	3,623 13.7	1,987 4.5	3,154 2.5	51 1.4	9,637 7.9	175 4.6	20,682 5.9

TABLE 26. (Cont'd.)

Educational Level	O C C U P A T I O N								Total
	Profes- sional and Technical	Adminis- trative and Managerial	Clerical and Related	Sales Workers	Service Workers	Agricul- ture and Related	Produc- tion and Related Workers	Workers not Classi- fied	
Grades 9 - 12 Number Percent	7,522 30.9	564 34.9	11,761 44.3	2,886 6.6	2,701 2.2	313 8.6	9,986 8.3	318 8.4	36,051 10.3
Attending Post. Sec. Com. & Voca. Sch. Number Percent	251 1.0	22 1.4	173 0.7	53 0.1	45 0.0	- -	98 0.1	- -	642 0.2
Comm. Sch. completed Number Percent	1,690 7.0	112 6.9	2,304 8.8	298 0.7	100 0.1	57 1.6	785 0.6	26 0.7	5,372 1.5
Sec. Teach. Edu. Comp. Number Percent	661 2.7	- -	201 0.7	13 0.0	12 0.0	- -	26 0.0	- -	913 0.3
Post Sec. Completed Number Percent	551 2.3	24 1.5	147 0.5	44 0.1	74 0.1	17 0.5	279 0.2	- -	1,136 0.3
Attending University Number Percent	646 2.7	55 3.4	352 1.3	78 0.2	36 0.0	27 0.7	117 0.1	- -	1,311 0.4

TABLE 26. (Cont'd.)

Educational Level	O C C U P A T I O N								Total
	Profes- sional and Technical	Adminis- trative and Managerial	Clerical and Related	Sales Workers	Service Workers	Agricul- ture and Related	Produc- tion and Related Workers	Workers not Classi- fied	
University incomplete Number Percent	543 2.2	96 5.9	402 1.5	100 0.2	70 0.1	24 0.7	139 0.1	- -	1,374 0.4
University Certificate and Diploma Number Percent	916 3.8	64 4.0	472 1.8	154 0.4	42 0.0	29 0.8	87 0.1	14 0.4	1,778 0.5
BA/BSC, MA or PH.D Number Percent	3,064 12.6	398 24.6	471 1.8	219 0.5	108 0.1	50 1.4	285 0.2	38 1.0	4,633 1.3
Not Stated Number Percent	419 1.7	17 1.0	309 1.2	456 1.0	1,226 1.0	31 0.8	2,105 1.7	271 7.2	4,834 1.4
TOTAL Number Percent	24,331 100.0	1,617 100.0	26,519 100.0	43,834 100.0	125,267 100.0	3,652 100.0	121,812 100.0	3,770 100.0	350,802 100.0

persons are mostly young adults aged 15 - 29 years. The percentage of unemployed males aged 15 - 29 is 64 percent, while the percentage of the females in the same age group is 77 percent. The unemployed males and females at the ages of 30 - 49 are 26 and 15 percent, respectively (see Table 27).

TABLE 27. UNEMPLOYED PERSONS BY AGE GROUP, AND SEX

Age Group	Male		Female		Both Sexes	
	Number	%	Number	%	Number	%
10 - 14	445	3.8	1,136	7.3	1,581	5.8
15 - 29	7,489	63.5	11,881	76.6	19,370	70.9
30 - 49	3,054	25.9	2,297	14.8	5,351	19.6
50 & Over	765	6.5	166	1.1	931	3.4
Not Stated	37	0.3	39	0.2	76	0.3
TOTAL	11,790	100.0	15,519	100.0	27,309	100.0

The data on unemployed persons by sex and marital status are given in Table 28. The proportion single, married, and widowed males are 64, 28 and 6 percent, respectively. The proportion single, widowed, and married females are 50, 33 and 13 percent, respectively.

TABLE 28. UNEMPLOYED PERSONS BY SEX AND MARITAL STATUS

	Male		Female		Both Sexes	
	Number	%	Number	%	Number	%
Single	7,573	64.2	7,733	49.8	15,306	56.0
Married	3,311	28.1	1,987	12.8	5,298	19.4
Widowed	681	5.8	5,037	32.5	5,718	20.9
Divorced	101	0.9	653	4.2	754	2.6
Not Stated	124	1.0	109	0.7	233	0.9
TOTAL	11,790	100.0	15,519	100.0	27,309	100.0

7 - EDUCATIONAL CHARACTERISTICS OF THE UNEMPLOYED PERSONS

The data in Table 29 show that 46 percent of the unemployed persons are illiterate, 2.3 percent can only read and write, 18.6 percent had primary education, 8.1 percent had junior secondary education, 18.2 percent had senior secondary education, and 1.4 percent had some university education. The illiteracy rate is higher among the females than the males, that is 55 percent of the females are illiterate compared with 34 percent of the males. In general, about half of the unemployed persons are illiterate or just literate with no formal education, and 47 percent of the unemployed persons had primary or higher education.

TABLE 29. UNEMPLOYED PERSONS AGED TEN YEARS AND OVER BY SEX, AND HIGHEST GRADE COMPLETED

Highest Grade Completed	Male		Female		Both	
	Number	%	Number	%	Number	%
Illiterate	3,999	33.9	9,498	54.8	12,497	45.8
Literate (having no formal education)	325	2.8	213	1.4	538	2.0
Attended adult literacy programmes	26	0.2	55	0.3	81	0.3
Priest or Koranic Schools	808	6.9	286	1.8	1,094	4.0
Primary, grade 1	100	0.8	193	1.2	293	1.1
Primary, grade 2	279	2.4	302	1.9	581	2.1
Primary, grade 3	293	2.5	552	3.6	845	3.1
Primary, grade 4	365	3.1	474	3.1	839	3.1
Primary, grade 5	412	3.5	628	4.0	1,040	3.8
Primary, grade 6	705	6.0	761	4.9	1,466	5.4
Junior sec. grade 7	348	2.9	402	2.6	750	2.7
Junior sec. grade 8	679	5.8	794	5.1	1,473	5.4
Senior sec. grade 9	273	2.3	308	2.0	581	2.1
Senior sec. grade 10	536	4.5	289	1.9	825	3.0
Senior sec. grade 11	337	2.9	180	1.2	517	1.9
Senior sec. grade 12	1,429	12.1	1,008	6.5	2,437	9.0
Commercial/Technical sec.	215	1.8	398	2.6	613	2.2
Post secondary education	30	0.3	-	-	30	0.1
Attending Commercial and post sec.	52	0.4	30	0.2	82	0.3
University education	374	3.2	17	0.1	391	1.4
Not Stated	205	1.7	131	0.8	336	1.2
TOTAL	11,790	100.0	15,519	100.0	27,309	100.0

V - FERTILITY

1. REPORTED FERTILITY LEVELS

In the Survey, 37,745 live births are reported to have occurred during the last 12 months prior to the survey date and that the population of the city is estimated at 1,167,315. Therefore, the reported crude birth rate is: $\frac{37,745 \times 1000}{1,167,315} = 32.3$ per 1000

The crude birth rate measures the number of births during the year per 1000 population. The reported crude birth rate of 32 per 1000 is lower than the crude birth rate of 37 per 1000 reported in 1967. There are indications that fertility could be low in the city as compared to the high fertility of 45/1000 for the country. The proportion of childless women account for 37.8 percent of all women aged 15 years and over. The significant proportion of childless women may depress fertility. Also the estimated mean age of child bearing of 29.8 years is high, and indicates rising age at first marriage* and postponement of births.

A relatively refined measure of fertility which is less affected by age and sex composition of the population is the general fertility rate. It measures the number of annual births per 1000 women at reproductive ages (15-49 years). The total number of women in the reproductive ages 15-49 equals 319,253. Thus general fertility rate equals $\frac{37,745 \times 1000}{319,253} = 118$ births per 1000 women at child bearing ages.

2. AGE - SPECIFIC FERTILITY RATES.

From the reported number of births during the pre-survey year, the age specific birth rates are calculated by dividing the reported number of births to the women in a given age group by the corresponding number of women at that age group. As a measure of the level of fertility, total fertility rate is computed from the reported age-specific birth rates.

*The survey gave female mean age at first marriage of 15 years

Total fertility rate is defined as the average number of children born alive by a woman who live to the end of her reproductive life, that is to the age of 50. The total fertility rate obtained from the reported data is 3.8.

Another measure of fertility is the gross reproduction rate. It measures the number of daughters that would be borne per woman during her reproductive life span. Reported gross reproduction rate is 1.84.

TABLE 30. REPORTED FERTILITY ESTIMATE

Age Group (1)	Number of Women (2)	Number of births last year (3)	Number of female births last year (4)	Births Per Woman (5)=3÷2	Female births per Woman (6)=4÷2
15 - 19	83,151	3,629	1,771	0.0436	0.0213
20 - 24	82,636	11,012	5,261	0.1758	0.0840
25 - 29	61,991	12,089	5,764	0.1950	0.0930
30 - 34	37,034	5,482	2,900	0.1480	0.0783
35 - 39	34,383	3,611	1,687	0.1050	0.0491
40 - 44	24,410	1,177	593	0.0482	0.0243
45 - 49	15,648	721	282	0.0461	0.0180
TOTAL	319,253	37,745	18,258	0.7617	0.3680

3. ESTIMATION OF FERTILITY FROM SURVEY DATA ON NUMBER OF CHILDREN EVERBORN ALIVE TO WOMEN

Data on number of children everborn alive to women classified by age group are obtained from the survey. Based on number of children everborn, mean number of children born per woman (parity of woman) is calculated by dividing total number of children everborn to women in a particular age group by the corresponding number of women at that age group.

The mean number of children born per woman is 0.161 for the women aged 15-19, 1.140 for the women aged 20-24, and rises gradually until it reaches 4.7 children per woman at the age group 35-39 and starts declining thereafter. Normally the parity reaches its peak at the age group 45-49 and remains constant thereafter. But due to omissions and reporting errors by older women, the observed parity data deviated from the expected pattern. Normally, if the reporting of children ever born is correct and if the fertility level remained constant, and the migration rate is negligible, the parity of 4.4 children to women aged 45-49 should represent the average completed family size or the total fertility rate. However, the inferred total fertility rate may not be correct as the observed parity data (retrospective fertility data) are subjected to memory lapse by older women.

Das Gupta, et.al¹, developed a method of adjusting the declining parity data of older women due to omission of children ever born. The method consists of fitting regression line to replace the declining fertility curve beyond age group 45-49 by a horizontal line passing through the peak. The regression line-

$$P_{x_+} = 4.3766 - 0.0338X_+ \text{ was fitted.}$$

Where P_{x_+} is parity at age X_+ ; X_+ being measured from 47.5.

After fitting the regression line, adjustment for possible under reporting of total fertility rate at the age group 45-49 was made by passing the line through the beginning of the reproductive life span, taken at 15 years, which gives a total fertility rate of 5.5. Also adjusted parity values for each age group in the reproductive life span are obtained by the formula:

1. A, Das Gupta, et.al. Analysis of total number of children born by age of mother in UNECA "Recall lapse in Current Vital data and in historical fertility data", PP45-48, Accra, Ghana, 16-28 July 1973.

$$\hat{P}_x = P_x + 0.0338 (X-15)$$

Where \hat{P}_x = is the adjusted parity for an age group with midpoint X.

P_x = is the reported parity for an age group with mid point X.

The reported and adjusted parities by age group of women are given in Table 31.

TABLE 31. REPORTED AND ADJUSTED MEAN NUMBER OF CHILDREN EVER BORN BY AGE GROUP OF WOMEN

Age Group	Number of women	Number of Children ever born alive	Mean Number of children Per Woman	Adjusted Mean Number of Children Per Woman
15 - 19.	83,151	13,386	0.1610	0.246
20 - 24	62,636	71,384	1.1397	1.393
25 - 29	61,991	164,009	2.6457	3.068
30 - 34	37,034	142,232	3.8406	4.432
35 - 39	34,383	161,710	4.7032	5.464
40 - 44	24,410	113,359	4.6440	5.469
45 - 49	15,648	68,485	4.3766	5.475
50 - 54	12,054	48,341	4.0104	5.475
55 - 59	9,032	34,004	3.7648	5.475
60 - 64	9,821	34,755	3.5388	5.475
65 - 69	6,148	23,777	3.8674	5.475
70+	9,241	34,613	3.7456	5.475
TOTAL	366,620	910,055	2.4823	-

125490
46296

4. EDUCATIONAL LEVEL OF WOMEN

Fertility performance and educational level of women has always been found to be indirectly correleated. The rational behind this observed truth is mainly due to the duration of time women spend on education. Besides educated women do not cherish the idea of having too much children. The elites who are overwhelmingly urbanites feel the burden of upbringing and educating their children.

The fertility differentials depicted by the level of education in Addis Ababa as shown in Table 32 is not far from the above generalization. Decreasing fertility level is discernible as the level of education increases. The higher fertility levels exhibited by those women who completed senior secondary and post secondary education than those who did not complete senior secondary education may appear to negate the above generalization. However, strict scrutiny of the data reveals that the number of women with senior secondary and post secondary education to be small. For example, there were not women who reported with post secondary education aged 45 years and above. Illiterate women show moderately lower fertility levels than those literate women. This phenomenon has been observed in many parts of Africa and has become a point of argument among demographers. Some demographers say the low level of fertility reported by illiterate women is due to memory lapse rather than actual lower fertility performance. On the contrary, other demographers argue literate women with no higher level education cherish the value of high number of children, like their illiterate counterparts, but are in a better position to improve sanitation. Improved sanitation is said to decrease spontaneous miscarriage besides other advantages. However, it is worth noting that literate women as used here refers to those who can read and write only with no grade completed plus those who have been to priest or Koranic schools, and adult literacy programmes.

Fertility performance of women in the age group 15-19 years is strictly decreasing from 0.235 to zero parity per woman as the ladder of educational level increases from illiterate to post secondary education, respectively. This is in line with our expectation. Higher level of education demands more number of school years and, therefore, postponement of births to older ages. In the subsequent age groups, however, the depressing effect of educational level on fertility level is not clearly seen. The increasing obscurity of the depressing effect of educational level on fertility as the age of women increase might have arisen from the decreasing number of women as level of education and age of women increases. By and large, examination of Table 32 reveals that fertility level to decrease as the level of education increases. That is fertility is high among the illiterate women and the literate women with no grade completed, low among women with primary and junior secondary education, and lowest among women with secondary education.

TABLE 32. FEMALE POPULATION 15 YEARS AND OVER BY PARITY, EDUCATIONAL LEVEL AND AGE GROUP

Educational Level	AGE GROUP					
	15-19	20-34	35-44	45+	N/S	Total
Illiterate	0.235	2.563	4.612	3.900	2.613	3.052
Literate(having no. formal education)	0.172	2.813	5.776	5.061	2.742	3.464
Primary Education Not Completed	0.113	2.400	5.135	5.501	-	1.611
Primary Education Completed	0.102	2.444	6.579	3.407	-	1.299
Junior Secondary Completed	0.098	2.057	5.678	2.240	1.029	1.016
Senior Secondary Not Completed	0.094	1.227	4.334	5.324	-	0.584
Senior Secondary Completed	0.009	0.991	3.541	3.250	-	0.929
Post Secondary Education	0.000	0.919	3.979	-	-	1.166
N/S	0.218	1.572	3.477	3.499	0.195	1.774
TOTAL	0.145	2.336	4.679	3.939	1.343	2.482

TABLE 33. PROPORTION OF CHILDLESS WOMEN BY AGE GROUP

Age Group	Total Women	Women With No Child	Proportion of Childless Women
15 - 19	83,151	75,180	0.904
20 - 24	62,636	27,898	0.445
25 - 29	61,991	11,737	0.189
30 - 34	37,034	4,486	0.121
35 - 39	34,383	3,695	0.107
40 - 44	24,410	3,338	0.137
45 - 49	15,648	2,477	0.158
50 - 54	12,054	2,310	0.192
55 - 59	9,032	1,601	0.177
60 - 64	9,821	1,983	0.202
65 - 69	6,148	1,268	0.206
70 - 74	4,430	959	0.216
75 - 79	1,675	337	0.201
80 - 84	1,896	414	0.218
85+	1,240	391	0.315
N/S	1,071	684	0.639
TOTAL	366,620	138,758	0.378

VI - ESTIMATION OF MORTALITY

The reported crude death rate for the population of Addis Ababa is 12.8 per 1000. The rate for the male population is 19.3 per 1000 while it is only 6.9 per 1000 for the female population. The reported crude death rate for the city appears to be low as compared to 17-20 deaths per 1000 population for the country and depicts wide variation between the sexes.

Reported age-specific death rates are given in Table 34. Age specific death rates are very high for children who are under one year of age, declines to low level at the age-group 1-4, and reaches its lowest levels at the age group 5-14, and thereafter, it gradually increases with advancing ages. The pattern described is not smooth for it is disturbed by erratic fluctuations which may be genuine or due to reporting errors.

1. ESTIMATION OF CHILDHOOD MORTALITY FROM NUMBER OF CHILDREN EVERBORN AND SURVIVING

Employing Brass method¹ of estimating infant and childhood mortality and Sullivan's² modification to data on number of children dead among children everborn alive to women aged 15-19, 20-24, ----, 60-64, the probabilities of dying between birth and age 1,2,3,5,10,15,----35, that is $q_1, q_2, q_3, q_5, \dots, q_{35}$ are estimated (see Tables 35 and 36). However, the selection of mortality levels on the Coale-Demeny North and West family of model life table³ is based on estimated q_2 and q_3 or Corresponding l_2 and l_3 values. Then from the selected mortality levels, the implied expectation of life at birth is estimated. The results are presented in Table 37.

1. Brass, W; et.al, The Demography of Tropical Africa, pp 105-114, Princeton University Press, Princeton, New Jersey, 1968.
2. Sullivan, J.M., Models for the estimation of the probability of dying between birth and exact ages of early childhood, Population studies, Vol. 26, No.1, 1972.
3. Coale, A.J., and Demeny, P., Regional Model Life Tables and Stable Populations, Princeton University Press, Princeton, New Jersey, 1966.

TABLE 34. NUMBER OF DEATHS AND DEATH RATES DURING THE LAST 12 MONTHS,
BY SEX AND AGE GROUP

Age Group	M A L E			F E M A L E			B O T H S E X E S		
	Population	Deaths	Death Rates per 1000	Population	Deaths	Death Rates per 1000	Population	Deaths	Death Rates per 1000
Under 1	17,903	2,505*	139.9	17,490	2,082*	119.0	35,393	4,587*	129.6
1 - 4	70,200	1,144	16.3	70,000	577	8.2	140,200	1,721	12.3
5 - 9	80,236	231	2.9	83,728	92	1.1	163,964	323	2.0
10 - 14	67,279	173	2.6	75,782	68	0.9	143,061	241	1.7
15 - 19	59,877	476	7.9	83,151	83	1.0	143,028	559	3.9
20 - 24	45,012	990	2.0	62,636	123	2.0	107,648	1,113	10.3
25 - 29	46,325	810	17.5	61,991	60	1.0	108,316	870	8.0
30 - 34	38,515	560	14.8	37,034	43	1.2	75,549	612	8.1
35 - 39	36,687	581	15.8	34,383	78	2.3	71,070	659	9.3
40 - 44	28,589	381	13.3	24,410	98	4.0	52,999	479	9.0
45 - 49	18,912	446	23.6	15,648	68	4.3	34,560	514	14.9
50 - 54	11,876	472	39.7	12,054	125	10.4	23,930	597	24.9
55 - 59	8,140	320	39.3	9,032	114	12.6	17,172	434	25.3
60 - 64	8,224	408	49.6	9,821	113	11.5	18,045	521	28.9
65 - 69	5,162	155	30.0	6,148	83	13.5	11,310	238	21.0
70 - 74	3,855	375	97.3	4,430	156	35.2	8,285	531	64.1
75 - 79	1,893	178	94.0	1,675	75	44.8	3,568	253	70.9
80 - 84	1,444	116	80.3	1,896	83	43.8	3,340	199	59.6
85 +	1,237	180	145.5	1,240	101	81.5	2,477	281	113.4
Not Stated	2,329	178	76.4	1,071	40	37.3	3,400	218	64.1
TOTAL	553,695	10,688	19.3	613,620	4,262	6.9	1,167,315	14,950	12.8

*Data obtained from table on dead and surviving children born alive during the last 12 months.

TABLE 35. BRASS METHOD OF ESTIMATING MALE CHILD MORTALITY

Age Group (1)	Mean Number of Children		Proportion of Children Dead $1-s_i/P_i$ (4)	Multiplier (5)	Age X (6)	Proportion Dead by Age X q_x (7) = (4)x(5)	Proportion of Survivors' To Exact Age x, l_x (8)
	Ever Born P_i (2)	Surviving S_i (3)					
15 - 19	0.0825	0.0719	0.1285	1.044	1	0.1342	0.8658
20 - 24	0.5858	0.4962	0.1530	1.044	2	0.1597	0.8403
25 - 29	1.3807	1.1346	0.1782	1.013	3	0.1805	0.8195
30 - 34	1.9824	1.5803	0.2028	1.040	5	0.2109	0.7891
35 - 39	2.4003	1.8836	0.2152	1.048	10	0.2255	0.7745
40 - 44	2.4147	1.7536	0.2738	1.031	15	0.2823	0.7177
45 - 49	2.3002	1.5663	0.3191	1.032	20	0.3293	0.6707
50 - 54	2.0815	1.2816	0.3843	1.047	25	0.4024	0.5976
55 - 59	1.9369	1.0892	0.4377	1.050	30	0.4596	0.5404
60 - 64	1.8388	0.9653	0.4750	1.035	35	0.4916	0.5084

TABLE 36. BRASS METHOD OF ESTIMATING FEMALE CHILD MORTALITY

Age Group (1)	Mean Number of Children		Proportion of Children Dead $1-s_i/P_i$ (4)	Multiplier (5)	Age X (6)	Proportion Dead by Age X q_x (7) = (4)x(5)	Proportion of Survivors' To Exact Age x, l_x (8)
	Ever Born P_i (2)	Surviving S_i (3)					
15 - 19	0.0775	0.0685	0.1161	1.044	1	0.1212	0.8788
20 - 24	0.5538	0.4888	0.1174	1.044	2	0.1226	0.8774
25 - 29	1.2650	1.0881	0.1398	1.013	3	0.1416	0.8584
30 - 34	1.8582	1.5660	0.1572	1.040	5	0.1635	0.8365
35 - 39	2.3029	1.9008	0.1746	1.048	10	0.1830	0.8170
40 - 44	2.2292	1.7454	0.2170	1.031	15	0.2237	0.7763
45 - 49	2.0764	1.5365	0.2600	1.032	20	0.2683	0.7317
50 - 54	1.9288	1.3926	0.2780	1.047	25	0.2911	0.7089
55 - 59	1.8279	1.2088	0.3387	1.050	30	0.3556	0.6444
60 - 64	1.7000	1.0520	0.3812	1.035	35	0.3945	0.6055

TABLE 37. ESTIMATED SURVIVORS TO AGE 2, l_2 , AND TO AGE 3, l_3 , IMPLIED MORTALITY LEVELS,* AND EXPECTATION OF LIFE AT BIRTH IN YEARS (e_0) BY METHOD OF ESTIMATION

Estimation method	M A L E					
	Family of model life tables					
	North			West		
	Estimated Survivors	Mortality Level	e_0	Estimated Survivors	Mortality Level	e_0
Brass**	$l_2=0.8403$	12.8	46.31	$l_2=0.8403$	13.6	48.53
	$l_3=0.8195$	12.7	46.24	$l_3=0.8195$	13.2	47.59
Sullivan***	$l_2=0.8425$	12.9	46.61	$l_2=0.8366$	13.4	48.07
	$l_3=0.8299$	13.4	47.54	$l_3=0.8222$	13.3	47.81
	F E M A L E					
Brass**	$l_2=0.8774$	14.0	52.5	$l_2=0.8774$	14.6	54.00
	$l_3=0.8584$	13.8	52.07	$l_3=0.8584$	14.2	52.97
Sullivan***	$l_2=0.8792$	14.1	52.69	$l_2=0.8747$	14.5	53.64
	$l_3=0.8665$	14.3	53.26	$l_3=0.8604$	14.3	53.22

* = Ansley J. Coale and Paul Demeny, Regional model Life Tables and Stable Populations, Princeton, New Jersey 1966.

** = W. Brass, et al., The Demography of Tropical Africa, Princeton University Press, Princeton, New Jersey, 1968.

*** = J.M. Sullivan, models for the estimation of the probability of dying between birth and exact ages of early childhood, in Population Studies Vol. 26, No.1, 1972.

The estimated male expectation of life at birth based on l_2 by Brass and Sullivan estimation methods is about 46 years according to the North model life tables and 48 years according to the West model life tables. On the otherhand, the estimated female expectation of life at birth based on l_2 is about 53 years according to the North model life tables and about 54 years according to the West model life tables. Estimates of expectation of life at birth based on l_3 are about consistent with the estimates based on l_2 . The sex differences in childhood mortality suggest that female expectation of life at birth exceeds that of males by about five to six years (see Table 37). This difference appears to be large and it may be due to a more selective under-reporting of deaths among female Children.

2. ESTIMATION OF ADULT MORTALITY FROM PROPORTIONS OF SURVIVING PARENTS AND CONSTRUCTION OF A LIFE TABLE

The expectation of life at birth obtained from estimated l_2 and l_3 gives a measure of the level of childhood mortality. Estimation of adult mortality is derived from proportion of surviving parents by age group of respondents. In the survey data are collected on survival of parents and on this basis proportion of surviving parents by sex and age group of respondents are computed as given in Tables 38 and 39. The method of estimating adult mortality consists of translating the proportions of surviving parents by age of respondents into life table survivorship ratios. That is, the proportions of surviving parents are multiplied by a factor that depends on the mean age of parents at the birth of their children to give the life table survivorship ratios. The defining relation is given as follows.

$$P_{(N)} \cdot K = \frac{1(B+N)}{1(B)}$$

Where $P_{(N)}$ is the proportion of persons aged N whose parents are still alive;

B is the base age in years from which survivorship is measured and is generally chosen as being close to the mean age of mothers at the birth of their children (22.5, 25, 27.5, 30);

$l_{(B)}$ and $l_{(B+N)}$ are the life table Survivors at age B and B+N respectively;

$l_{(B+N)} l_{(B)}$ is the probability of Surviving from age B to B+N;

K is an appropriate multiplying factor; and

N is taken as the midpoint of the five year age group.

The first parameter that is required for the estimation of the life table survivorship ratios is the mean age of mothers¹ at the birth of their Children, "M". Thus, "M" is computed from the survey reports of births in the previous year by age of mothers and it is estimated as 27 years for the females. However, for the males, it is estimated by adding the difference between average ages of married females and married males weighted by fitted polygamy ratios to the female "M". Thus the estimated "M" for the males is 34.7 years.

Due to the unavailability of the required data, the estimate of mean age of fathers at the birth of their children "M" is subject to errors. Besides the method has limitations such as multiple reporting of the same parents in case somebody has more than one living child and the non-reporting of some parents having no living child. There is also the possibility of substituting foster parents for real ones and distortions due to age misreporting. The estimates of adult mortality may also be affected by changing mortality conditions and migration. Further the weights used are developed from models. The technique assumes that there is no correlation between survival of parents and children.

¹ Blacker J.G.C, Estimation of Adult Mortality from Proportions of Surviving Parents, PP A76- A83, in Report of the Population Census of Botswana 1971, August 1972.

TABLE 38. PROPORTION OF RESPONDENTS WITH SURVIVING
FATHERS BY AGE GROUP

Age Group	Male Respondents	Female Respondents
0 - 4	0.9672	0.9625
5 - 9	0.9336	0.9229
10 - 14	0.8792	0.8714
15 - 19	0.7892	0.7824
20 - 24	0.7212	0.6996
25 - 29	0.5957	0.5809
30 - 34	0.4695	0.4547
35 - 39	0.3843	0.3373
40 - 44	0.2537	0.2152
45 - 49	0.1943	0.1484
50 - 54	0.1274	0.0817
55 - 59	0.0724	0.0418
60 - 64	0.0441	0.0265
65 - 69	0.0404	0.0170
70 +	0.0324	0.0261

Note: Not Stated Survival Ship responses are prorated

TABLE 39. PROPORTION OF RESPONDENTS WITH SURVIVING MOTHERS
BY AGE GROUP

Age Group	Male Respondents	Female Respondents
0 - 4	0.9942	0.9925
5 - 9	0.9793	0.9780
10 - 14	0.9498	0.9450
15 - 19	0.8913	0.8902
20 - 24	0.8330	0.8176
25 - 29	0.7425	0.7382
30 - 34	0.6643	0.6358
35 - 39	0.5906	0.5509
40 - 44	0.4512	0.4159
45 - 49	0.3702	0.2998
40 - 54	0.2715	0.1950
55 - 59	0.2043	0.1356
60 - 64	0.1062	0.0766
65 - 69	0.0764	0.0583
70 +	0.0511	0.0325

Note: Not Stated Survival Ship responses are prorated

Brass¹ has developed a technique that links the estimates of childhood mortality, l_2 , and adult mortality to generate a life table. To generate a model life table, Brass' two-parameter model life table system is used. The equation which could generate the life table is:

$$Y(x) = \alpha + \beta Y_s(x)$$

where

$Y(x)$ is the logit of the life table survivors at age x in the model to be constructed;

$Y_s(x)$ is the corresponding logit values in the "general standard life table"; the "general standard life table" has been used; α and β are constants such that α determines the over-all level of mortality (that is by the level of childhood mortality), and β determines the relationship between adult and child mortality, that is, the steepness with which the mortality rates increase with ages (calculated from the estimates of $l_{(B+N)}/l_{(B)}$. Where $l_{(B+N)}/l_{(B)}$ is derived from the proportion of surviving parents.

The estimates of the parameters α and β of the regression $Y(x) = \alpha + \beta Y_s(x)$ that is fitted to generate the life table are given below.

	<u>From Proportion of Surviving</u>			
	<u>Mothers</u>		<u>Fathers</u>	
	α	β	α	β
Male respondents	-0.1872	0.899	-0.1458	0.957
Female respondents	-0.2359	1.046	-0.2073	1.086

Based on the two parameter equation formulated by Brass two sets of life tables, two for each Sex are generated. That is one set of life table based on survival of parents of the male respondents and another set based on the survival of parents of the female respondents (see Tables 40 and 41). It is difficult to suggest whether the

1. Brass, w.et.al., op. at., pp 127-134.

male life table based on male respondents or female respondents is to be used, but since the difference is small it suffices to suggest any one of them can be used. The expectation of life at birth obtained by this method appears to be close to the estimates obtained by l_2 and l_3 (estimate of mortality from stable population models, given on Table 37). The similarity of the results may be due to the use of l_2 to generate the life table. In any case the similarity of the two sets of mortality estimates may invite for further investigation of the mortality situation in the city.

$$nq_x = \frac{nd_x}{L_x}$$

$$nM_x = \frac{nd_x}{nL_x}$$

TABLE 40. LIFE TABLE OF THE MALE POPULATION BASED ON SURVIVAL OF FATHERS(BRASS MODEL)

Exact Age	Male Respondents				Female Respondents			
	n^q_x	l_x	${}^L_n x$	e^o_x	n^q_x	l_x	${}^L_n x$	e^o_x
0	0.1342	10,000	9,028	48.70	0.1212	10,000	9,339	50.53
1	0.0295	8,658*	8,508	55.21	0.0016	9,087	8,903	54.58
2	0.0372	8,403*	25,206	55.87	0.0333	8,774	26,238	55.52
5	0.0197	8,090	40,065	54.92	0.0177	8,482	42,052	54.33
10	0.0149	7,931	39,360	50.96	0.0134	8,332	41,380	50.27
15	0.0247	7,813	38,583	46.70	0.0236	8,220	40,615	45.92
20	0.0341	7,620	37,450	42.82	0.0324	8,026	39,480	41.97
25	0.0353	7,360	36,150	39.24	0.0343	7,766	38,165	38.29
30	0.0375	7,100	34,835	35.59	0.0368	7,500	36,810	34.56
35	0.0421	6,834	33,450	31.87	0.0421	7,224	35,360	30.78
40	0.0501	6,546	31,910	28.17	0.0514	6,920	33,710	27.02
45	0.0635	6,218	30,103	24.52	0.0660	6,564	31,738	23.35
50	0.0850	5,823	27,878	21.01	0.0886	6,131	29,298	19.83
55	0.1132	5,328	25,133	17.73	0.1238	5,588	26,210	16.51
60	0.1611	4,725	21,723	14.68	0.1771	4,896	22,313	13.49
65	0.2286	3,964	17,555	12.01	0.2564	4,029	17,563	10.85
70	0.3283	3,058	12,780	9.83	0.3665	2,996	12,235	8.73
75	1,0000	2,054	17,290	8.42	1,0000	1,898	13,935	7.34

*Estimates Computed from Brass Method of Estimating Infant and Childhood Mortality.

Definition

n^q_x - The proportion of persons alive at the beginning of age x who will die before reaching age x+n (probability of dying in the age interval x to x+n years).

l_x - The number of survivors at age x out of 10,000 original births or the number of persons living at age x out of 10,000 original cohort of births.

${}^L_n x$ - The number of persons in the population who at any moment are living in the age interval x to x+n.

e^o_x - The average number of years remaining to be lived by a person at age x. e^o_0 means the average number of years expected to be lived by a new born infant.

TABLE 41. LIFE TABLE OF THE FEMALE POPULATION BASED ON SURVIVAL OF MOTHERS (BRASS MODEL)

Exact Age	Male Respondents				Female Respondents			
	n^q_x	l_x	$L_{n^q_x}$	e^o_x	n^q_x	l_x	$L_{n^q_x}$	e^o_x
0	0.1342	10,000	9,088	50.25	0.1212	10,000	9,123	51.46
1	0.0295	8,740	8,541	56.46	0.0016	8,788*	8,780	57.52
2	0.0349	8,403	25,116	57.70	0.0319	8,774*	26,258	56.61
54	0.0181	8,110	40,199	56.69	0.0168	8,494	42,131	55.39
10	0.0138	7,963	39,540	52.69	0.0131	8,351	41,483	51.29
15	0.0230	7,853	38,813	48.39	0.0221	8,242	40,755	46.94
20	0.0313	7,672	37,760	44.48	0.0308	8,060	39,680	42.94
25	0.0323	7,432	36,560	40.83	0.0323	7,812	38,430	39.22
30	0.0336	7,192	35,355	37.11	0.0345	7,560	37,148	35.45
35	0.0383	6,950	34,085	33.32	0.0396	7,299	35,773	31.62
40	0.0452	6,684	32,665	29.54	0.0481	7,010	34,208	27.83
45	0.0572	6,382	30,998	25.82	0.0631	6,673	32,313	24.10
50	0.0751	6,017	28,955	22.24	0.0816	6,252	29,985	20.56
55	0.1030	5,565	26,393	18.84	0.1151	5,742	27,057	17.16
60	0.1468	4,992	23,128	15.71	0.1655	5,081	23,303	14.07
65	0.2062	4,259	19,100	12.99	0.2408	4,240	18,648	11.37
70	0.2996	3,381	14,373	10.71	0.3479	3,219	13,295	9.18
75+	1.000	2,368	21,845	9.23	1.0000	2,099	16,246	7.74

*Estimates Computed from Brass Method of Estimating Infant and childhood Mortality.

VII POPULATION GROWTH AND PROJECTION

The population of the City for the years 1961, 1967 and 1978 and the growth rates for the periods 1961 - 1967, 1967 - 1978 and 1961 - 1978 is given below.

Year	Population Size	Period	Growth rate per annum %
1961	443,728		
1967	683,530	1961-1967	7.0
1978	1,167,315	1967-1978	5.0
		1961-1978	5.8

The population of the City grew from 443,728 in 1961 to 1,167,315 in 1978. The growth of the population between 1961 and 1978 was 5.8 percent per annum. However, the growth was remarkably fast between the period 1961 to 1967 which was 7 percent per annum than between the period 1967 to 1978 which showed a growth of 5 percent per annum.

The reported crude birth and death rates which are 32.3 and 12.8 per 1000 population, respectively, result in a natural increase of 19.5 persons per 1000 population during a year. The reported data suggests that the population naturally grows by about 2 percent per annum. Taking the annual population growth rate as 5 percent and the annual rate of natural increase as 2 percent per annum, then the net in-migration rate is 3 percent per annum.

The population of the City is projected up to 1990 using the rate of growth of 5 percent per annum observed between the period 1967 to 1978 and the 1978 population estimate obtained from the Addis Ababa Demographic Survey as the base figure. In the projection, it is assumed that the observed growth rate of 5 percent per annum would continue up to the end of the projection period. Further the current sex ratio of 90.2 males per 1000 females is assumed to be

constant during the projection period. However, there are possibilities that the assumptions made may not hold true due to possible fertility decline, increase or decrease in the volume of migration to the City. It is worth noting that the projection does show the future population size of the city if the observed trend of population growth continues. Therefore, on the basis of the projection, the current population of the City which is 1,167,315 would reach 2,080,358 by 1990.

POPULATION PROJECTION OF ADDIS ABABA:1978-1990

Year	Male	Female	Both Sexes
September 1978	553,695	613,620	1,167,315
July 1 1979	576,789	639,553	1,216,342
" 1980	605,629	671,530	1,277,159
" 1981	635,910	705,107	1,341,017 ✓
" 1982	667,706	740,362	1,408,068 ✓
" 1983	701,091	777,381	1,478,472
" 1984 ⁸⁴	736,146	816,249	1,552,395
" 1985 ⁸⁵	772,953	857,062	1,630,015
" 1986 ⁸⁶	811,601	899,915	1,711,516
" 1987 ⁸⁷	852,181	944,910	1,797,091
" 1988 ⁸⁸	894,789	992,157	1,886,946
" 1989 ⁸⁹	939,529	1,041,764	1,981,293
" 1990 ⁹⁰	986,506	1,093,852	2,080,358

While Africa is the least urbanized region of the world in terms of proportion of total population living in urban areas, the rate of urbanization that is currently observed is the fastest in the world. Although comparable recent data on the growth of the cities of Africa is not available, the observed rate of growth of 7 percent between 1961-1967 and 5 percent between 1967-1978 for the city are high and

believed to fall in line with the high rate of urban growth rate for Africa. If the city's population continue to grow at 5 percent per anum, the population would double in 14 years time. This implies that the City would have an ever growing school age population, labour force, and large population that need to be housed, schooled, medicated, fed, etc. Thus to overcome the problems that would be posed by the city's growing population, a considerable effort should be put to enhance the economic and social growth of the city, and the future development of the city and its infrastructure should be well planned ahead of time.

APPENDIX-1
DETAILED STATISTICAL TABLES

TABLE 1. POPULATION BY AGE AND SEX

Age	Male	Female	Total
00	17,903	17,490	35,393
01	16,394	16,238	32,632
02	17,890	16,912	34,802
03	17,413	18,729	36,142
04	18,503	18,121	36,624
00 - 04	88,103	87,490	175,593
05	16,891	16,426	33,317
06	16,138	15,698	31,836
07	16,560	17,156	33,716
08	16,605	17,416	34,021
09	14,042	17,032	31,074
5 - 09	80,236	83,728	163,964
10	15,708	16,791	32,499
11	11,166	12,115	23,281
12	14,753	16,362	31,115
13	13,049	15,380	28,429
14	12,603	15,134	27,737
10 - 14	67,279	75,782	143,061
15	12,632	17,747	30,379
16	11,290	16,022	27,312
17	11,082	15,182	26,264
18	14,739	21,654	36,393
19	10,134	12,546	22,680
15 - 19	59,877	83,151	143,028
20	13,176	19,008	32,184
21	7,960	10,873	18,833
22	9,375	12,658	22,033
23	7,933	11,063	18,996
24	6,568	9,034	15,602
20 - 24	45,012	62,636	107,648

TABLE 1. (Cont'd.)

Age	Male	Female	Total
25	11,478	18,754	30,232
26	7,923	10,693	18,616
27	8,665	10,960	19,625
28	11,714	13,879	25,593
29	6,545	7,705	14,250
25 - 29	46,325	61,991	108,316
30	13,776	14,226	28,002
31	6,178	5,814	11,992
32	8,402	5,937	15,339
33	5,827	5,809	11,636
34	4,332	4,248	8,580
30 - 34	38,515	37,034	75,549
35	11,073	11,170	22,243
36	6,352	6,188	12,540
37	6,517	6,211	12,728
38	8,192	7,434	15,626
39	4,553	3,380	7,933
35 - 39	36,687	34,383	71,070
40	10,698	10,046	20,744
41	3,663	3,984	7,647
42	7,484	5,249	12,733
43	4,090	3,019	7,109
44	2,654	2,112	4,766
40 - 44	28,589	24,410	52,999
45	6,938	6,468	13,406
46	3,034	2,564	5,598
47	3,084	2,192	5,276
48	3,998	2,921	6,919
49	1,858	1,503	3,361
45 - 49	18,912	15,648 ✓	34,560

TABLE 1. (Cont'd.)

Age	Male	Female	Total
50	5,160	5,214	10,374
51	1,458	1,755	3,213
52	2,597	2,173	4,770
53	1,368	1,382	2,750
54	1,293	1,530	2,823
50 - 54	11,876	12,054	23,930
55	2,655	3,279	5,934
56	1,799	1,623	3,422
57	1,400	1,533	2,933
58	1,451	1,556	3,007
59	835	1,041	1,876
55 - 59	8,140	9,032	17,172
60	3,366	4,427	7,793
61	1,351	1,608	2,959
62	1,570	1,618	3,188
63	1,040	1,101	2,141
64	897	1,067	1,964
60 - 64	8,224	9,821	18,045
65	1,988	2,614	4,602
66	756	792	1,548
67	1,092	948	2,040
68	967	1,196	2,163
69	359	598	957
65 - 69	5,162	6,148	11,310
70	1,853	2,363	4,216
71	563	776	1,339
72	637	472	1,109
73	513	441	954
74	289	378	667
70 - 74	3,855	4,430	8,285

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TABLE 1. (Cont'd.)

Age	Male	Female	Total
75	736	770	1,506
76	350	273	623
77	200	257	457
78	384	278	662
79	223	97	320
75 - 79	1,893	1,675	3,568
80	628	1,050	1,678
81	242	247	489
82	310	266	576
83	122	194	316
84	142	139	281
80 - 84	1,444	1,896	3,340
85	237	245	482
86	96	114	210
87	64	94	158
88	135	97	232
89	111	28	139
90	167	147	314
91	52	27	79
92	27	87	114
93	14	23	37
94	14	10	24
95	36	72	108
96	25	35	60
97	74	8	82
98	185	253	438
85 and over	1,237	1,240	2,477
Not Stated	2,329	1,071	3,400
TOTAL	553,695	613,620	1,167,315

TABLE 2- POPULATION BY MARITAL STATUS, AGE GROUP AND SEX

AGE GROUP	SEX	SINGLE	MARRIED	WIDOWED	DIVORCED	NS	TOTAL
10-14	M	66148	133	44	17	378	67220
	F	74255	295	176	42	1014	75782
	M+F	140403	428	220	59	1892	143002
15-19	M	58546	874	133	14	310	59877
	F	67006	9070	6260	224	591	83151
	M+F	125552	9944	6393	238	901	143028
20-24	M	35733	7996	511	39	381	45012
	F	18057	29105	14061	1070	343	62636
	M+F	53840	37103	14872	1109	724	107648
25-29	M	18760	25205	2071	144	145	46325
	F	3998	41046	14950	1862	135	61991
	M+F	22758	66251	17021	2006	280	108316
30-34	M	7020	29190	2066	139	100	38515
	F	839	25864	8049	2132	150	37034
	M+F	7859	55054	10115	2271	250	75549
35-39	M	2984	31254	2121	229	110	36598
	F	409	23932	7567	2325	150	34303
	M+F	3393	55186	9688	2554	260	71081
40-44	M	1104	24856	2109	375	174	28578
	F	201	14141	5804	3165	98	24410
	M+F	1305	39007	8913	3541	222	52988
45-49	M	717	16347	1440	345	63	16912
	F	173	7560	4694	3051	70	15648
	M+F	890	24007	6134	3396	133	34560
50-54	M	342	9532	1441	541		11876
	F	50	4794	3703	3406	101	12054
	M+F	392	14326	5144	3947	101	23930
55-59	M	260	6764	827	256	33	8140
	F	88	3107	2975	2739	62	9032
	M+F	348	9871	3803	3055	95	17172
60-64	M	136	5414	1142	481	51	8224
	F	186	2110	3249	4242	34	9821
	M+F	322	8524	4391	4723	85	18045
65-69	M	122	3977	547	399	17	5162
	F	117	1114	1774	3072	71	6148
	M+F	239	5091	2421	3471	88	11310
70-74	M	80	2517	771	477	10	3855
	F	64	563	1196	2580	27	4430
	M+F	144	3080	1967	3057	37	8285

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TABLE 2- POPULATION BY MARITAL STATUS, AGE GROUP AND SEX

AGE GROUP	SEX	SINGLE	MARRIED	WIDOWED	DIVORCED	NS	TOTAL
75-79	M	109	1088	337	359		1893
	F		147	442	1086		1675
	M+F	109	1235	779	1445		3568
80-84	M	54	715	257	418		1444
	F	56	110	353	1313	64	1896
	M+F	110	825	610	1731	64	3340
85 and over	M	88	586	162	380	21	1237
	F	49	49	152	939	51	1240
	M+F	137	635	314	1319	72	2477
Not Stated	M	373	1207	61	10	678	2329
	F	191	309	196	115	260	1071
	M+F	564	1516	257	125	938	3400
TOWN TOTAL	M	192626	168687	16440	4623	2921	385297
	F	165739	163416	76602	33424	3221	442402
	M+F	358365	332103	93042	38047	6142	827699

TABLE 3 POPULATION BY RELATIONSHIP TO HEAD OF THE HOUSEHOLD, AGE GROUP AND SEX

Relationship	SEX	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+	N/S	TOTAL
Head	M	-	-	388	2865	11711	29652	31660	32842	26246	17633	10640	7412	17959	1775	190653
	F	-	-	94	1055	6863	10407	8283	8808	8969	6568	5646	4012	11289	167	72150
	M+F	-	-	482	3920	18574	40059	39943	41650	35215	24201	16286	11424	29248	1942	262803
Husband/Wife	M	-	-	-	32	179	473	390	519	361	191	251	109	342	26	2873
	F	-	-	-	6907	25490	37630	24312	22361	12831	7057	4116	2772	3305	300	147081
	M+F	-	-	-	6939	25669	38103	24702	22880	13192	7248	4367	2881	3647	326	149954
Son	M	78177	70388	52100	32725	14360	4853	1570	649	276	91	13	39	109	175	255525
Daughter	F	76828	69959	54370	37995	10112	2791	980	762	349	257	94	66	113	198	254874
Father	M	-	-	-	-	-	-	-	-	-	52	137	66	1340	10	1605
Mother	F	-	-	-	-	-	-	-	148	341	660	1100	1338	6390	65	10022
Brother	M	189	695	2550	6844	5686	3336	1434	772	425	188	230	141	269	76	22830
Sister	F	206	1411	3645	6982	3538	1577	679	532	479	273	302	199	874	70	20767
Grand, adopted & Step children	M	4563	4691	3828	3444	1766	539	262	93	37	14	15	-	35	9	19296
	F	4919	5663	5216	4562	1310	463	101	62	67	40	10	13	56	16	22498
	M+F	9482	10354	9044	8006	3076	1002	363	155	104	54	25	13	91	25	41794
Other relatives	M	3269	3062	4786	8173	6389	3361	1332	732	306	242	159	134	375	153	32473
	F	3343	5088	6389	9472	4052	1811	586	372	356	192	282	209	1499	50	33688
	M+F	6612	8150	11175	17645	10441	5172	1918	1104	662	434	441	343	1874	203	66161
Non-relatives	M	1828	1301	1670	3083	3035	2728	1433	824	589	360	253	160	1042	51	18357
	F	2114	1236	1042	1880	2472	1932	563	474	372	225	261	294	1332	51	14248
	M+F	3942	2537	2712	4963	5507	4660	1996	1298	961	585	514	454	2374	102	32605
Naid/Guard	M	-	128	1847	2706	1774	1302	424	278	338	127	178	79	429	39	9649
	F	-	337	4876	14268	8727	5303	1473	884	619	362	243	129	388	143	37752
	M+F	-	465	6723	16974	10501	6605	1897	1162	957	489	421	208	817	182	49401
Not stated	M	77	-	60	-	86	81	10	-	-	14	-	-	-	15	343
	F	80	34	-	35	57	67	13	-	47	14	-	-	-	11	358
	M+F	157	34	60	35	143	148	23	-	47	28	-	-	-	26	701
TOTAL	M	88103	80265	67229	39877	44936	46325	38515	36709	28578	18912	11876	8140	21900	2329	553744
	F	87490	83728	75766	83151	62621	61981	36990	34383	24410	15648	12054	9032	25246	1071	613571
	M+F	175593	163993	142995	143028	107607	108327	75505	71092	52988	34560	23930	17172	47146	3400	1167315

TABLE 4. POPULATION BY ETHNIC GROUP, SEX AND AGE

ETHNIC GROUP	SEX	AGE GROUP													N.B	TOTAL
		0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+		
AMHARA	Male	41569	39565	31503	25620	18256	20108	17263	17602	14729	10654	5981	4466	11785	809	259910
	Female	42833	42187	38071	44737	34204	35437	20244	19629	13982	9874	7391	5145	15076	412	
	Both Sexes	84402	81752	69574	70377	52460	55545	37507	37231	28711	20528	13372	9611	26861	1221	
OROMO	Male	17697	14202	11398	8298	7277	8426	7212	7307	5390	3521	2477	1572	4123	361	89761
	Female	16702	16495	14316	14649	11641	10967	7787	7528	5949	2657	2455	1930	4804	162	
	Both Sexes	34399	30697	25714	22947	18918	19393	14999	14835	11339	4962	3502	8927	523		
GURAGE	Male	14909	13875	14155	12678	12639	10616	7339	5919	4262	2340	1528	880	2262	202	116072
	Female	14247	13595	13564	12690	7519	6737	3745	3594	2234	1348	967	972	2247	117	
	Both Sexes	29156	27471	27719	30368	20198	17353	11083	9513	6496	3688	2498	1852	4509	319	
TIGRAY	Male	7411	7531	5015	3873	3622	3757	3829	3481	2455	1259	1025	505	1100	76	44959
	Female	7511	6471	6169	7091	6256	6058	3737	2486	1411	1041	684	385	918	36	
	Both Sexes	14922	14002	11184	10964	10178	9815	7616	5967	3866	2300	1709	890	2018	112	
DORZIE	Male	2566	1890	2939	2600	1843	2020	1451	1174	715	451	163	179	300	99	18190
	Female	2484	1486	861	1142	1271	1219	541	286	184	94	55	54	98	26	
	Both Sexes	5050	3376	3600	3742	3114	3239	1992	1460	899	545	218	233	398	125	
WELAYTA	Male	856	700	718	578	380	347	356	225	283	232	357	209	1160	10	6411
	Female	604	759	641	901	381	294	297	270	342	351	253	342	1185	17	
	Both Sexes	1460	1459	1359	1479	761	641	653	495	625	583	610	551	2345	27	
KENNATA	Male	457	260	236	148	169	273	141	176	172	74	42	47	143	-	2338
	Female	350	293	444	313	203	95	64	63	-	11	11	25	26	-	
	Both Sexes	807	553	680	461	372	368	205	239	172	85	53	72	169	-	
ADERRI	Male	224	257	147	182	159	113	121	104	99	31	23	45	81	8	1590
	Female	294	153	227	153	123	204	54	45	34	-	-	10	34	-	
	Both Sexes	518	410	374	281	282	317	225	149	133	31	23	55	165	8	
TIGRE	Male	163	282	173	103	52	160	123	49	39	26	39	13	36	-	1296
	Female	300	171	164	110	135	122	13	51	25	39	13	-	57	-	
	Both Sexes	463	453	337	213	187	282	136	100	64	65	52	13	93	-	
WOWJE	Male	66	94	175	86	48	17	28	28	39	28	21	9	79	-	2458
	Female	127	159	87	96	38	69	58	28	60	38	9	28	82	-	
	Both Sexes	193	252	262	182	86	86	86	56	99	66	30	37	161	-	
KFFA	Male	63	88	90	51	47	38	40	64	40	26	33	28	77	-	665
	Female	132	98	90	155	31	73	10	21	11	21	47	36	100	-	
	Both Sexes	195	186	180	206	78	111	50	85	51	47	80	64	177	-	
HADIA	Male	184	203	52	52	52	35	73	58	21	-	-	-	-	-	730
	Female	139	140	13	60	78	65	12	13	-	-	-	-	-	-	
	Both Sexes	323	343	65	112	130	100	85	58	34	-	-	-	-	-	
OTHER ETHIOPIANS	Male	1223	629	184	143	124	176	137	161	71	125	52	28	216	46	3365
	Female	936	642	285	223	179	238	89	73	23	49	99	72	297	-	
	Both Sexes	2159	1271	469	366	303	414	226	234	94	174	151	150	513	46	
FOREIGNERS	Male	622	655	578	486	250	148	181	295	227	145	103	109	428	100	4287
	Female	625	910	763	761	241	327	302	276	119	113	10	33	149	50	
	Both Sexes	1247	1565	1301	1247	491	475	483	571	346	258	113	142	577	150	
NOT STATED	Male	79	57	97	33	74	91	121	55	36	-	32	-	25	618	1318
	Female	206	171	87	90	36	86	80	33	23	12	30	-	61	251	
	Both Sexes	285	228	184	123	110	177	201	88	59	12	62	-	86	869	
TOTAL	Male	88089	80295	67220	59877	45012	46325	38515	36698	28598	18912	11876	8140	21815	2329	553681
	Female	87490	83728	75782	83151	62636	61991	37034	34383	24410	15648	12054	9032	25210	1071	
	Both Sexes	175579	164023	143002	143023	107648	108316	75549	71081	52988	34560	23930	17172	47025	3400	

Table 5. POPULATION BY AGE-GROUP, SEX AND LENGTH OF CONTINUOUS RESIDENCE

Length	Sex	AGE GROUP													N/S	Total
		00-04	05-09	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+		
Born in Addis Ababa	M	82,359	68,207	47,514	29,484	13,151	7,156	4,599	3,525	2,466	1,601	954	724	1,927	64	263,731
	F	82,468	69,858	50,977	37,875	15,642	9,540	4,801	5,101	3,418	2,136	1,370	1,154	3,006	248	287,594
	M+F	164,827	138,065	98,491	67,359	28,793	16,696	9,400	8,626	5,884	3,737	2,324	1,878	4,933	312	551,325
Less Than one Year	M	1,438	1,444	2,430	2,575	1,557	1,590	928	824	409	285	216	128	207	46	14,077
	F	1,292	2,014	3,353	6,104	2,259	1,385	517	297	208	188	175	163	537	26	18,518
	M+F	2,730	3,458	5,783	8,679	3,816	2,975	1,445	1,121	617	473	391	291	744	72	32,595
One Year	M	737	1,356	2,140	2,034	1,106	943	443	516	159	182	63	79	174	27	9,959
	F	872	1,307	2,283	4,344	2,553	1,030	437	370	193	90	88	79	300	13	13,959
	M+F	1,609	2,663	4,423	6,378	3,659	1,973	880	886	352	272	151	158	474	40	23,918
Two Years	M	1,102	1,364	2,012	3,073	1,515	1,338	791	613	319	224	51	117	254	36	12,809
	F	812	1,798	2,939	4,830	3,571	1,532	586	276	208	128	141	81	419	-	17,321
	M+F	1,914	3,162	4,951	7,903	5,086	2,870	1,377	889	527	352	192	198	673	36	30,130
Three Years	M	665	1,570	2,170	3,649	2,182	1,210	1,127	620	437	321	119	102	129	60	14,361
	F	647	1,984	2,645	4,133	3,795	2,282	857	445	253	119	219	61	488	21	17,949
	M+F	1,312	3,554	4,815	7,782	5,977	3,492	1,984	1,065	690	440	338	163	617	81	32,310
Four Years	M	216	1,369	1,771	2,949	2,934	1,670	1,033	750	532	215	120	53	265	44	13,921
	F	224	1,728	2,063	4,035	4,793	2,786	852	627	385	206	137	163	626	26	18,551
	M+F	440	3,097	3,834	6,984	7,727	4,456	1,885	1,377	917	421	257	216	891	70	32,572
Five Years	M	40	1,609	1,381	2,468	2,438	2,424	954	559	427	205	88	71	150	23	12,837
	F	75	1,621	1,866	3,143	4,923	3,327	1,060	556	249	177	145	154	386	-	17,682
	M+F	115	3,230	3,247	5,611	7,361	5,751	2,014	1,115	676	382	233	225	536	23	30,519
Six Years	M	26	979	1,251	1,976	2,392	2,678	1,187	631	378	202	226	80	84	46	12,136
	F	-	968	1,327	2,507	4,157	3,257	1,115	463	333	110	102	198	272	10	14,819
	M+F	26	1,947	2,578	4,483	6,549	5,935	2,302	1,094	711	312	328	278	356	56	26,955
Seven Years	M	32	719	927	1,289	1,940	1,966	1,197	740	505	250	138	155	154	36	10,048
	F	18	735	1,112	1,846	3,351	3,363	1,239	685	242	103	103	78	500	19	13,394
	M+F	50	1,454	2,039	3,135	5,291	5,329	2,436	1,425	747	353	241	233	654	35	23,442
Eight Years	M	20	450	1,268	1,368	2,058	2,785	1,378	1,074	355	318	138	46	217	39	11,514
	F	47	501	1,545	2,034	2,971	3,974	1,493	769	454	194	124	63	422	8	14,599
	M+F	67	951	2,813	3,402	5,029	6,759	2,871	1,843	809	512	262	109	639	47	26,113
Nine Years	M	-	102	677	664	939	1,175	715	593	215	146	102	63	120	30	5,541
	F	-	114	951	816	1,415	2,722	846	310	278	171	82	100	225	29	8,059
	M+F	-	216	1,628	1,480	2,354	3,897	1,561	903	493	317	184	163	345	59	13,600
10 Years & Over	M	67	129	3,336	8,070	12,494	20,889	23,875	26,005	22,147	14,875	9,568	6,514	17,929	845	166,743
	F	64	188	4,373	11,210	12,898	26,632	23,062	24,312	18,032	11,963	9,347	6,698	17,838	273	166,890
	M+F	131	317	7,709	19,280	25,392	47,521	46,937	50,317	40,179	26,838	18,915	13,212	35,767	1,118	333,633
Not Stated	M	1,367	997	343	278	306	501	288	248	229	88	93	8	205	1,033	6,004
	F	971	912	348	274	308	161	169	172	157	63	21	40	191	398	4,185
	M+F	2,358	1,909	691	552	614	662	457	420	386	151	114	48	396	1,431	10,189
Town Total	M	88,089	80,295	67,220	59,877	45,012	46,325	38,515	36,698	28,578	18,912	11,876	8,140	21,815	2,329	553,681
	F	87,490	83,728	75,782	83,151	62,636	61,991	37,034	34,383	24,410	15,648	12,054	9,032	25,210	1,071	613,620
	M+F	175,579	164,023	143,002	143,028	107,648	108,316	75,549	71,081	52,988	34,560	23,930	17,172	47,025	3,400	1,167,301

Table 6. POPULATION BY BIRTH PLACE, AGE-GROUP, AND SEX

Place	Sex	AGE GROUP													N/S	Total
		00-04	05-09	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+		
Addis Abeba	M	83,667	69,749	48,204	30,086	13,600	7,841	5,386	4,169	2,970	2,005	1,122	796	2,203	121	271,419
	F	83,053	70,720	51,626	38,668	16,478	10,272	5,538	5,701	3,801	2,460	1,603	1,276	3,370	251	294,817
	M+F	166,720	139,969	99,830	68,754	30,078	18,113	10,924	9,870	6,771	4,465	2,725	2,072	5,573	372	566,236
Arsisi Urban	M	33	83	130	253	140	339	233	205	171	51	42	25	101	-	1,806
	F	42	121	218	327	348	477	113	165	87	68	36	17	60	-	2,079
	M+F	75	204	348	580	488	816	346	370	258	119	78	42	161	-	3,885
Rural	M	-	45	58	319	317	232	275	429	165	231	96	83	31	-	2,281
	F	38	88	179	264	446	499	270	230	121	113	74	-	99	-	2,421
	M+F	38	133	237	583	763	731	545	659	286	344	170	83	130	-	4,702
Bale Urban	M	45	148	40	13	48	78	106	75	71	8	40	26	46	-	744
	F	17	58	148	149	109	82	133	111	98	61	40	15	46	-	1,067
	M+F	62	206	188	162	157	160	239	186	169	69	80	41	92	-	1,811
Rural	M	28	66	78	117	49	17	38	125	-	42	-	-	-	-	560
	F	53	91	108	142	85	48	56	64	30	21	16	24	15	-	753
	M+F	81	157	186	259	134	65	94	189	30	63	16	24	15	-	1,313
Eritrea Urban	M	321	735	726	772	762	919	972	1,072	575	491	435	155	425	33	8,393
	F	317	598	788	1,375	1,179	1,396	782	727	396	361	179	156	413	10	8,677
	M+F	638	1,333	1,514	2,147	1,941	2,315	1,754	1,799	971	852	614	311	838	43	17,070
Rural	M	102	165	123	278	331	418	583	592	510	253	238	165	308	9	4,075
	F	72	155	398	484	887	675	658	472	271	197	193	70	200	8	4,740
	M+F	174	320	521	762	1,218	1,093	1,241	1,064	781	450	431	235	508	17	8,815
Gamu Goffa Urban	M	106	453	1,056	990	601	866	800	767	370	302	121	153	289	50	6,924
	F	122	267	163	238	492	824	303	235	134	47	81	24	259	-	3,189
	M+F	228	720	1,219	1,228	1,093	1,690	1,103	1,002	504	349	202	177	548	50	10,113
Rural	M	144	304	939	1,397	1,220	1,204	789	579	461	246	185	165	472	71	8,176
	F	66	200	139	617	727	517	274	294	206	100	202	167	427	26	3,962
	M+F	210	504	1,078	2,014	1,947	1,721	1,063	873	667	346	387	332	899	97	12,138
Gojan Urban	M	73	145	336	349	215	428	345	525	382	244	177	46	212	17	3,494
	F	52	175	250	791	883	1,013	565	494	243	152	105	63	251	-	5,037
	M+F	125	320	586	1,140	1,098	1,441	910	1,019	625	396	282	109	463	17	8,531
Rural	M	110	268	320	512	761	1,241	1,082	1,234	920	736	336	269	701	18	8,508
	F	120	466	766	1,560	1,975	2,386	1,096	1,028	571	509	275	177	432	13	11,374
	M+F	230	734	1,086	2,072	2,736	3,627	2,178	2,262	1,491	1,245	611	446	1,133	31	19,882
Gondar Urban	M	53	137	182	307	410	659	432	302	146	125	137	24	146	62	3,122
	F	59	245	447	1,033	1,030	725	301	288	112	185	114	51	80	-	4,670
	M+F	112	382	629	1,340	1,440	1,384	733	590	258	310	251	75	226	62	7,792
Rural	M	88	163	318	593	666	1,220	1,046	1,004	723	577	257	132	383	54	7,224
	F	60	187	555	1,992	1,784	1,917	853	499	309	213	154	86	280	-	8,889
	M+F	148	350	873	2,585	2,450	3,137	1,899	1,503	1,032	790	411	218	663	54	16,113
Hararge Urban	M	407	737	690	492	450	389	320	488	482	228	65	87	208	-	5,043
	F	300	587	828	1,037	850	717	394	475	340	161	86	42	326	10	6,153
	M+F	707	1,324	1,518	1,529	1,300	1,106	714	963	822	389	151	129	534	10	11,196
Rural	M	164	288	329	265	401	186	338	436	248	221	163	143	252	30	3,464
	F	71	337	441	731	521	452	277	304	190	217	192	87	306	-	4,126
	M+F	235	625	770	996	922	638	615	740	438	438	355	230	558	30	7,590
Illubabor Urban	M	102	68	73	25	20	56	31	38	33	32	28	13	36	-	575
	F	11	124	58	40	82	93	79	12	22	14	8	11	34	-	588
	M+F	113	192	131	65	102	149	130	50	55	46	36	24	70	-	1,163
Rural	M	48	84	63	25	43	106	73	40	12	65	-	14	73	-	646
	F	12	21	20	25	79	49	50	26	10	47	22	35	97	-	468
	M+F	60	105	83	25	122	155	123	66	22	112	22	49	170	-	1,114

Table 6. POPULATION BY PLACE OF BIRTH, AGE-GROUP, AND SEX

Place	Sex	AGE GROUP													R/D	Total
		00-04	05-09	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+		
Keffa Urban	M	13	113	203	150	259	63	125	78	105	201	39	83	241	13	1,706
	F	43	180	206	458	237	105	90	72	123	51	61	102	244	-	1,774
	M+F	56	293	409	608	496	168	215	150	230	252	120	185	485	13	3,480
Rural	M	69	201	209	153	162	211	200	160	117	155	120	122	470	-	2,349
	F	65	114	235	406	277	250	186	130	155	141	235	100	533	-	2,827
	M+F	134	315	444	559	439	461	386	290	272	296	355	222	1,003	-	5,176
Shoa Urban	M	467	1,299	2,297	3,450	4,225	4,402	3,467	3,571	2,747	2,171	1,167	929	2,044	147	32,383
	F	384	1,587	3,145	5,849	5,790	5,769	4,511	4,120	3,106	2,138	1,581	1,079	2,937	114	42,108
	M+F	851	2,886	5,442	9,299	10,015	10,171	7,978	7,691	5,853	4,307	2,748	2,008	4,981	261	74,491
Rural	M	1,021	3,238	8,233	14,829	14,596	15,691	13,961	13,351	11,802	7,832	5,091	3,433	9,484	456	123,218
	F	1,082	4,647	10,047	15,576	14,941	19,175	12,974	13,544	10,624	5,754	5,295	4,342	11,257	204	129,462
	M+F	2,103	7,885	18,280	30,405	29,537	34,866	26,935	26,895	22,426	13,586	10,386	7,775	20,941	660	252,680
Sidamo Urban	M	106	429	405	529	328	471	414	352	259	140	130	60	491	10	4,124
	F	215	381	444	606	522	423	181	236	152	259	134	232	687	-	4,472
	M+F	321	810	849	1,135	850	894	595	588	411	399	264	292	1,178	10	8,596
Rural	M	10	117	160	206	176	367	190	117	286	232	151	126	521	11	2,670
	F	44	165	220	385	274	217	187	77	232	206	82	119	545	-	2,753
	M+F	54	282	380	591	450	584	377	194	518	438	233	245	1,066	11	5,423
Tigray Urban	M	49	209	183	476	745	1,101	1,012	694	548	209	114	57	110	13	5,520
	F	36	311	708	1,492	1,886	1,774	923	364	322	194	184	17	148	8	8,367
	M+F	85	520	891	1,968	2,631	2,875	1,935	1,058	870	403	298	74	258	21	13,887
Rural	M	94	131	330	589	707	1,034	1,074	888	790	244	210	144	232	30	6,499
	F	65	143	564	1,460	1,745	1,912	1,079	738	348	227	158	96	152	10	8,697
	M+F	159	274	894	2,049	2,452	2,946	2,153	1,626	1,138	471	368	242	384	40	15,196
Wollega Urban	M	57	144	142	112	334	284	264	389	260	41	127	49	189	30	2,422
	F	66	167	192	282	268	221	138	207	134	159	66	36	216	-	2,152
	M+F	123	311	334	394	602	505	402	596	394	200	193	85	405	30	4,574
Rural	M	54	185	205	304	535	495	370	552	332	263	144	200	423	22	4,084
	F	65	181	270	378	274	436	281	292	326	250	131	75	329	-	3,288
	M+F	119	366	475	682	809	931	651	844	658	513	275	275	752	22	7,372
Wollo Urban	M	21	193	339	638	744	1,606	1,145	1,247	661	361	285	142	272	43	7,697
	F	136	326	886	2,634	2,576	3,022	1,340	1,106	473	479	181	159	348	19	13,685
	M+F	157	519	1,225	3,272	3,320	4,628	2,485	2,353	1,134	840	466	301	620	62	21,382
Rural	M	361	530	668	1,532	1,968	4,035	3,070	2,794	2,179	991	664	388	786	127	20,093
	F	185	734	1,452	4,084	5,605	6,311	3,093	2,059	1,323	737	502	307	956	44	27,392
	M+F	546	1,264	2,120	5,616	7,573	10,346	6,163	4,853	3,502	1,728	1,166	695	1,742	171	47,485
African Cou.	M	-	12	-	-	11	50	33	60	18	9	12	19	45	-	269
	F	63	44	-	33	33	23	22	23	-	-	-	11	11	-	263
	M+F	63	56	-	33	44	73	55	83	18	9	12	30	56	-	532
Other P.O.C.	M	-	64	43	34	-	14	17	126	91	76	62	71	268	-	866
	F	42	46	51	14	-	73	135	139	104	78	-	22	61	-	765
	M+F	42	110	94	48	-	87	152	265	195	154	62	93	329	-	1,631
Not Stated	M	276	292	138	82	188	302	304	239	144	130	98	19	153	962	3,327
	F	534	262	230	246	253	138	152	151	45	51	64	34	91	354	2,605
	M+F	810	554	368	328	441	440	456	390	189	181	162	33	244	1,316	5,932
TOTAL	M	88,089	80,295	67,220	59,877	45,012	46,325	38,515	36,698	28,578	18,912	11,876	8,140	21,815	2,329	553,681
	F	87,490	83,728	75,782	83,151	62,636	61,991	37,034	34,383	24,410	13,648	12,054	9,032	25,210	1,071	613,620
	M+F	175,579	164,023	143,002	143,028	107,648	108,316	75,549	71,081	52,988	34,560	23,930	17,172	47,025	3,400	1,167,301

Table 7. POPULATION BY PLACE OF PREVIOUS RESIDENCE, AGE-GROUP & SEX

Place	Sex	A G E G R O U P												N/S	Total	
		00-04	05-09	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59			60+
Addis Abeba	M	82,721	88,448	47,650	29,472	13,234	7,171	4,447	3,616	2,529	1,674	1,051	752	1,982	101	265,048
	F	82,337	69,900	51,224	37,974	15,796	9,843	5,027	5,362	3,446	2,258	1,478	1,145	3,188	251	289,249
	M+F	165,078	138,348	98,874	67,446	29,030	17,014	9,474	8,978	5,975	3,932	2,529	1,897	5,170	352	554,297
Arazi Urban	M	42	96	123	338	169	312	179	260	95	150	68	55	83	18	1,988
	F	42	129	205	383	430	425	169	216	159	130	64	62	111		2,525
	M+F	84	225	328	721	599	737	348	476	254	280	132	117	194	18	4,513
Rural	M		64	91	337	292	233	254	475	190	213	133	102	107	10	2,501
	F	13	133	190	326	408	435	253	260	159	96	84	32	178		2,547
	M+F	13	177	281	663	700	668	507	735	349	309	217	134	285	10	5,048
Bale Urban	M	60	163	121	118	92	235	165	163	55	30	40	26	49		1,317
	F	28	150	144	196	119	160	121	162	85	38	31	8	55		1,297
	M+F	88	313	265	314	211	395	286	325	140	68	71	34	104		2,614
Rural	M	13	40	33	60	59	41	47	46	23	21			47		430
	F	53	91	90	92	76	30	82	97	17		16	32	15		691
	M+F	66	131	123	152	135	71	129	143	40	21	16	32	62		1,121
Eritrea Urban	M	339	692	773	839	1,009	1,321	1,631	1,323	1,017	723	547	217	526	33	10,990
	F	302	697	898	1,640	1,609	1,776	1,136	888	564	500	264	152	470	10	10,906
	M+F	641	1,389	1,671	2,479	2,618	3,097	2,767	2,211	1,581	1,223	811	369	996	43	21,896
Rural	M	131	197	142	304	297	465	490	534	569	215	209	106	204	31	3,894
	F	89	176	457	507	754	652	621	434	151	147	134	56	192	8	4,378
	M+F	220	373	599	811	1,051	1,117	1,111	968	720	362	343	162	396	39	8,272
Gamo Goffa Urban	M	106	517	1,203	1,093	924	1,112	1,027	972	546	387	211	193	480	39	8,810
	F	145	341	299	406	654	1,139	533	381	249	115	117	70	400		4,849
	M+F	251	858	1,502	1,499	1,578	2,251	1,560	1,353	795	502	328	263	880	39	13,659
Rural	M	168	306	933	1,348	1,123	1,242	795	593	430	246	200	176	413	82	8,055
	F	104	209	152	606	719	519	267	240	214	90	197	135	339	26	3,817
	M+F	272	515	1,085	1,954	1,842	1,761	1,062	833	644	336	397	311	752	108	11,872
Gojam Urban	M	79	161	310	343	212	415	385	516	376	268	179	56	229	17	3,546
	F	69	254	248	829	1,014	1,058	539	573	316	208	138	83	242	13	5,584
	M+F	148	415	558	1,172	1,226	1,473	924	1,089	692	476	317	139	471	30	9,130
Rural	M	121	264	307	457	753	1,178	1,014	1,186	913	673	282	312	654	36	8,150
	F	120	475	773	1,564	1,863	2,331	1,153	960	540	498	278	188	490		11,233
	M+F	241	739	1,080	2,021	2,616	3,509	2,167	2,146	1,453	1,171	560	500	1,144	36	19,383
Gondar Urban	M	89	149	206	323	452	726	422	406	171	195	134	33	174	80	3,560
	F	59	234	428	1,065	963	818	339	286	134	158	80	63	65		4,692
	M+F	148	383	634	1,388	1,415	1,544	761	692	305	353	214	96	239	80	8,252
Rural	M	88	172	262	605	591	1,130	881	855	667	462	235	170	378	54	6,550
	F	41	156	558	1,910	1,867	1,799	812	445	318	229	153	91	282		8,661
	M+F	129	328	820	2,515	2,458	2,929	1,693	1,300	985	691	388	261	660	54	15,211
Hararge Urban	M	427	820	755	623	620	577	806	889	803	469	222	218	475	40	7,744
	F	328	664	971	1,339	1,166	944	660	686	538	160	171	100	412	10	8,149
	M+F	755	1,484	1,726	1,962	1,786	1,521	1,466	1,575	1,341	629	393	318	887	50	15,893
Rural	M	173	289	347	312	403	293	618	492	412	271	194	133	398	52	4,387
	F	87	321	400	769	564	500	403	375	292	281	209	168	324		4,693
	M+F	260	610	747	1,081	967	793	1,021	867	704	552	403	301	722	52	9,080
Illubabor Urban	M	119	68	90	72	38	66	68	119	69	48	9		55		821
	F	11	145	75	38	117	151	88	22	30		8		66		751
	M+F	130	213	165	110	155	217	156	141	99	48	17		121		1,572
Rural	M	48	82	74	25	43	106	121	51		37	11	14	52		664
	F	12	32	42	98	55	39	36	10		25	22	35	113		519
	M+F	60	114	116	25	141	161	160	87	10	62	33	49	165		1,183

Table 7. POPULATION BY PLACE OF PREVIOUS RESIDENCE, AGE-GROUP & SEX

PLACE	Sex	AGE GROUP												N/A	Total	
		00-04	05-09	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59			60+
Keffa Urban	M	13	145	249	174	295	251	313	262	201	259	133	125	300	23	2,745
	F	43	221	224	275	268	189	210	153	175	114	87	162	348		2,467
	M+F	56	366	473	449	563	440	523	415	376	373	220	287	648	23	5,212
Rural	M	92	270	215	200	268	304	364	457	185	327	87	107	382		3,058
	F	76	140	244	489	376	326	257	242	197	130	212	70	482		3,241
	M+F	168	410	459	689	644	630	621	699	382	457	299	177	864		6,299
Shoa Urban	M	460	1,524	2,543	4,012	4,653	4,912	3,727	4,285	3,162	2,445	1,199	1,042	2,195	86	36,245
	F	441	1,574	3,469	6,561	6,220	6,323	4,937	4,355	3,290	2,416	1,665	1,204	3,124	114	45,693
	M+F	901	3,098	6,012	10,573	10,873	11,235	8,664	8,640	6,452	4,861	2,864	2,246	5,319	200	81,938
Rural	M	980	3,069	7,976	14,259	13,780	14,485	12,952	11,813	10,437	6,977	4,401	2,957	8,540	417	113,043
	F	1,016	4,476	9,734	14,689	14,267	18,075	11,895	12,620	9,904	5,346	4,998	3,973	10,344	204	171,721
	M+F	1,996	7,545	17,710	28,948	28,047	32,560	24,847	24,433	20,341	12,323	9,399	6,910	19,084	621	234,764
Sidamo Urban	M	126	471	528	590	437	681	593	485	483	219	250	175	696	10	5,744
	F	189	397	549	757	770	765	392	328	283	399	143	250	725		5,947
	M+F	315	868	1,077	1,347	1,207	1,446	985	813	766	618	393	425	1,421	10	11,691
Rural	M	10	132	156	309	275	386	215	180	307	205	183	128	602		3,088
	F	81	177	230	419	300	318	237	149	304	195	110	142	631		3,293
	M+F	91	309	386	728	575	704	452	329	611	400	293	270	1,233		6,381
Tigray Urban	M	62	222	273	476	731	1,039	898	685	555	219	172	36	182	13	5,563
	F	109	337	652	1,533	1,933	1,696	873	446	364	153	179	17	139	8	8,539
	M+F	171	559	925	2,009	2,664	2,735	1,771	1,131	919	372	351	53	321	21	14,002
Rural	M	94	112	281	504	605	810	902	758	589	168	176	130	288	20	5,437
	F	44	123	478	1,255	1,299	1,485	860	576	281	228	89	74	167	10	6,969
	M+F	138	235	759	1,759	1,904	2,295	1,762	1,334	870	396	265	204	455	30	12,406
Wollega Urban	M	47	191	184	145	356	423	262	310	226	124	151	69	184	12	2,684
	F	49	153	208	358	301	323	168	200	127	156	105	62	190		2,400
	M+F	96	344	392	503	657	746	430	510	353	280	256	131	374	12	5,084
Rural	M	40	127	152	282	527	429	306	509	318	221	130	197	338	22	3,598
	F	65	158	243	332	323	411	263	278	344	241	152	102	364		3,276
	M+F	105	285	395	614	850	840	569	787	662	462	282	299	702	22	6,874
Wollo Urban	M	51	232	444	779	811	1,767	1,285	1,230	841	570	403	162	416	32	9,023
	F	125	362	944	2,666	2,992	3,764	1,569	1,468	585	618	356	220	484	19	18,172
	M+F	176	594	1,388	3,445	3,803	5,531	2,854	2,698	1,426	1,188	759	382	900	51	25,195
Rural	M	241	405	566	1,300	1,720	3,644	2,747	2,529	1,954	859	686	352	839	127	17,969
	F	130	643	1,369	3,810	5,084	5,368	2,712	1,757	1,170	598	430	278	808	44	24,201
	M+F	371	1,048	1,935	5,110	6,804	9,012	5,459	4,286	3,124	1,457	1,116	630	1,647	171	42,170
African Cou.	M		12			11	33	33	80	18	9	12	19	86		313
	F		63	44		33	33	51	22	23			11	74		304
	M+F		63	56		33	44	84	55	103	18	9	12	90		617
Other FO.C.	M		64	73	34	14	152	189	336	259	154	64	55	263		1,657
	F		42	46	68	14	83	202	181	104	59		22	80		901
	M+F		42	110	141	48	14	235	391	517	363	213	64	77	343	
Not Stated	M	1,149	791	160	144	218	386	279	287	178	174	104	23	198	972	5,059
	F	1,157	790	216	316	253	179	195	184	60	62	84	45	160	354	4,055
	M+F	2,306	1,581	376	460	471	565	474	467	238	236	188	68	358	1,326	9,114
Total	M	88,089	80,295	67,220	59,877	45,012	46,325	38,515	36,698	28,578	18,912	11,876	8,140	21,815	2,329	553,681
	F	87,490	83,728	75,782	83,151	62,636	61,991	37,034	34,383	24,410	15,648	12,054	8,032	25,210	1,071	613,620
	M+F	175,579	164,023	143,002	143,028	107,648	108,316	75,549	71,081	52,988	34,580	23,930	17,172	47,025	3,400	1,167,301

TABLE 8-LITERATE POPULATION AGED 10 AND OVER BY HIGHEST GRADE COMPLETED, SEX AND AGE-GROUP

Grade Completed	SEX	A G E G R O U P											N/S	TOTAL	
		10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+			
NO GRADE/LITERATE															
	F	397	673	1028	1501	2030	2005	2052	1465	937	893	1098	141	14220	
	M+F	453	551	533	735	435	472	323	278	143	74	94	21	4112	
PRIMARY GRADE-1--		850	1224	1561	2235	2465	2477	2375	1743	1000	967	1192	162	18332	
	F	2725	773	618	415	252	209	119	65	19	26	42	29	5294	
	M+F	3719	1316	649	629	153	143	119	65	19	26	42	29	6630	
PRIMARY GRADE-2--		6444	2089	1267	1045	405	352	119	65	19	26	63	29	11924	
	F	6146	1439	1384	1409	783	717	392	277	84	30	61		12722	
	M+F	5904	2021	1170	872	342	215	123	55					11712	
PRIMARY GRADE-3--		13050	3460	2554	2281	1125	932	515	342	84	30	61		24434	
	F	8994	1070	1746	1601	1085	977	743	413	118	122	113	33	17815	
	M+F	9129	3151	1517	1245	481	475	130	155	27	36		33	15354	
PRIMARY GRADE-4--		18123	9031	3263	2346	1566	1452	873	568	145	158	113	33	34171	
	F	10099	2530	1776	1803	1593	1081	684	453	110	105	311	34	20579	
	M+F	10110	3186	1541	1522	539	447	145	41	30	28	29		17626	
PRIMARY GRADE-5--		20217	5716	3317	3325	2132	1528	829	494	140	133	340	34	38205	
	F	10138	3336	1920	1989	1551	1333	750	452	209	128	146	29	21991	
	M+F	10227	4310	1916	1373	459	372	81	61	30		14		18843	
PRIMARY GRADE-6--		20365	7646	3836	3362	2010	1705	841	513	239	128	160	29	40834	
	F	8501	5831	2809	2858	1925	1582	1193	622	402	142	180	76	26131	
	M+F	9118	7811	3033	1634	853	429	98	49	9	11	17		23122	
JNR. SEC. GRADE-7--		17619	13642	5892	4502	2788	2011	1291	671	411	153	197	76	49253	
	F	4034	5509	1656	1705	972	609	463	230	188	103	49	10	15528	
	M+F	4650	5462	1619	783	337	262	54	21	13		48		13249	
JNR. SEC. GRADE-8--		3084	10971	3275	2488	1309	871	517	251	201	103	49	58	28777	
	F	2945	7382	2637	2434	1940	1588	734	518	278	145	127	49	20777	
	M+F	2597	3108	3331	1537	884	305	117	61	22	11	22	20	17015	
SNR. SEC. GRADE-9--		3542	15490	5968	3971	2824	1893	851	579	300	156	149	69	37792	
	F	928	6085	2026	1336	759	569	296	135	80		38	18	12170	
	M+F	818	5252	1348	624	176	197	59				15		8489	
SNR. SEC. GRADE-10-		1646	11337	3374	1960	935	766	355	135	80		53	18	20659	
	F	344	5169	3099	1488	929	791	445	304	103	19	42	44	12777	
	M+F	198	5650	2039	625	205	115	19	8			10		8869	
SNR. SEC. GRADE-11-		542	10819	5138	2113	1134	906	464	312	103	19	52	44	21646	
	F	98	3926	3781	1427	743	631	346	159	60	37	26	45	11279	
	M+F	89	4367	2256	620	240	91	37	22			13	33	7758	
		187	8293	6037	2047	983	722	383	181	60	37	39	78	19047	

Table 8. LITERATE POPULATION AGED 10 AND OVER BY HIGHEST GRADE COMPLETED SEX AND AGE-GROUP

Grade Completed	Sex	AGE GROUP											R/S	Total
		10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+		
Spr.Sec.Grade 12	M	25	1,624	5,455	4,363	3,086	2,289	1,216	572	252	89	126	88	19,185
	F	14	2,297	4,074	1,669	601	344	40	39	11	39	18	9,144	
	M+F	39	3,921	9,529	6,032	3,687	2,633	1,256	611	262	100	165	104	28,329
Sec/Com/Tec/School	M		77	535	855	604	656	371	166	30	38	47	3,379	
	F		217	1,252	1,237	520	158	23	11				7,418	
	M+F		294	1,787	2,092	1,124	814	394	177	30	38	47	6,797	
Sec.Teachers Edtn.	M	9		64	211	249	162	122	59				876	
	F		42	134	122	45	13	8					364	
	M+F	9	42	198	333	294	175	130	59				1,240	
Post Sec.Educate.	M		31	117	162	213	310	125	76	13	13	22	1,082	
	F		27	78	64	78	56	9					312	
	M+F		58	195	226	291	366	134	76	13	13	22	1,394	
University Inscrpt.	M		17	346	301	298	267	241	62		9		1,541	
	F		23	73	74	10	20	28					228	
	M+F		40	419	375	308	287	269	62		9		1,769	
University Certfr.	M			22	14	39	44	26		13		11	169	
	F				17								17	
	M+F			22	31	39	44	26		13		11	186	
University Diploma.	M			46	146	313	565	213	109	115	22	42	1,583	
	F				117	142	81						340	
	M+F			46	263	455	646	213	109	115	22	42	1,923	
University, BA/BSC	M			111	756	942	785	497	287		8	35	3,452	
	F			50	149	78	67						344	
	M+F			161	905	1,020	852	497	287		8	35	3,796	
University, MA, PHD	M	11		51	83	280	482	300	45	13		78	1,343	
	F		28		17	60	25						130	
	M+F	11	28	51	100	340	507	300	45	13		78	1,473	
Priest, Koranic...	M	1,005	1,195	1,529	3,071	3,494	4,265	4,842	3,719	2,414	1,871	5,286	98	32,789
	F	922	689	654	1,053	567	646	455	374	310	120	351	26	6,167
	M+F	1,927	1,884	2,183	4,124	4,061	4,911	5,297	4,093	2,724	1,991	5,637	124	38,956
Adult Literacy ...	M	33	78	93	313	385	315	276	254	89	56	188		2,080
	F	47	191	287	368	201	185	65	29	35		11	15	1,434
	M+F	80	269	380	681	586	500	341	283	124	56	199	15	3,514
Attending University	M		176	1,062	718	445	220	129	25	13	11	19	13	2,831
	F		221	485	136	55	25							922
	M+F		397	1,547	854	500	245	129	25	13	11	19	13	3,753
Ost Sec.Comercial	M		104	407	135	144	167	22	14	12	22	12		1,039
	F		77	282	57		22							438
	M+F		181	689	192	144	189	22	14	12	22	12		1,477
Not Stated	M	271	167	428	503	514	573	482	296	213	125	290	134	9,996
	F	140	193	114	274	130	129	74	104	34	9	78	10	1,289
	M+F	411	360	542	777	644	702	556	400	247	134	368	144	5,285
Not Stated	M	12		9		21		17						59
	F	24	11											35
	M+F	36	11	9		21		17						94
Total	M	56,615	47,992	34,755	31,608	25,589	23,192	17,106	10,778	5,765	4,014	8,389	884	266,687
	F	59,167	55,211	28,485	17,553	7,601	5,294	1,888	1,318	853	300	714	189	178,373
	M+F	115,782	103,203	63,240	49,161	33,190	28,486	18,994	12,096	6,618	4,314	9,103	1,073	445,060

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 TABLE 9. POPULATION AGED TEN YEARS AND OVER BY NUMBER OF DAYS
 WORKED DURING LAST WEEK AND SEX

Number of Days Worked	Male		Female		Both Sexes	
	Number	%	Number	%	Number	%
0	146,733	38.1	323,682	73.2	470,415	56.8
1	481	9.1	379	9.1	860	0.1
2	985	0.3	1,959	0.4	2,944	0.4
3	3,827	1.0	3,238	0.7	7,065	0.9
4	5,924	1.5	5,097	1.2	11,021	1.3
5	13,228	3.4	5,919	1.3	19,147	2.3
6	99,825	25.9	34,449	7.8	134,274	16.2
7	111,379	28.9	64,974	14.7	176,351	21.3
Not Stated.	2,915	0.8	2,707	0.6	5,622	0.7
Total	385,297	100.0	442,402	100.0	827,699	100.0

Note- Those who worked for two days or more during last week are considered as employed.

Those who worked for only one day were excluded from the totals.

*34204
 42100 + 93000*

TABLE 10 ECONOMICALLY IN-ACTIVE POPULATION AGED TEN YEARS AND OVER BY REASON FOR NOT WORKING DURING LAST WEEK, SEX & AGE GROUP

Season	Sex	AGE GROUP											N/S	TOTAL
		10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+		
Home-maker	M	278	195	62	161	86	117	24	24	46	20	10	-	1023
	F	1744	8986	23922	33533	21136	20238	12670	7280	4486	2882	3778	167	140822
	M+F	2022	9181	23984	33694	21222	20355	12694	7304	4532	2902	3788	167	141845
Student	M	53123	32497	9223	1466	279	68	37	8	12	-	34	36	96783
	F	57239	39279	6298	446	135	87	45	43	22	44	63	121	103822
	M+F	110362	71776	15521	1912	414	155	82	51	34	44	97	157	200605
Pensioned	M	-	-	-	131	143	250	411	762	1287	2219	6915	34	12152
	F	-	-	-	27	82	452	843	823	975	723	2515	17	6457
	M+F	-	-	-	158	225	702	1254	1585	2262	2942	9430	51	18609
Too Young	M	2837	372	-	-	-	-	-	-	-	-	-	-	3209
	F	4934	898	-	-	-	-	-	-	-	-	-	-	5832
	M+F	7771	1270	-	-	-	-	-	-	-	-	-	-	9041
Too Old	M	-	-	-	-	-	-	-	41	247	776	3494	19	4077
	F	-	-	-	-	-	-	-	604	1598	1711	10409	62	14374
	M+F	-	-	-	-	-	-	-	645	1745	1987	13893	81	18451
Physically disabled	M	274	347	397	503	551	533	666	561	330	212	803	10	5207
	F	354	674	325	421	322	502	532	337	413	251	778	-	4909
	M+F	628	1021	722	924	873	1035	1218	898	743	463	1581	10	10116
Unearned income recipients	M	240	194	189	318	306	295	442	444	401	352	1875	13	3069
	F	383	524	1469	2037	1894	2152	2374	1839	1500	1368	3793	18	19351
	M+F	623	718	1658	2355	2200	2447	2816	2283	1901	1720	5668	31	24420
Prostitute	M	-	-	-	-	-	-	-	-	-	-	-	-	-
	F	18	375	1949	2081	799	559	236	155	36	13	27	-	6248
	M+F	18	375	1949	2081	799	559	236	155	36	13	27	-	6248
Not stated	M	547	295	233	274	200	177	127	83	108	40	156	850	3098
	F	1093	450	212	144	166	66	96	43	13	37	166	384	2870
	M+F	1640	745	445	418	366	243	223	126	121	77	322	1234	5968
TOTAL	M	57299	33900	10104	2833	1565	1440	1227	1923	451	3119	11287	470	130618
	F	65765	51186	34175	38689	24534	24056	16796	11124	5943	7029	21619	769	304635
	M+F	123064	85086	44279	41542	26099	25496	18523	13047	11374	10148	34906	1239	435253

* Unearned income recipients refer to persons living from remittances sent by relatives, supports, women living on pension of deceased husbands, persons living on house allowances, etc. The income is not earned by working or is not obtained from shares and royalties.

TABLE 11 EMPLOYED POPULATION 10 YEARS AND OVER BY AGE-GROUP SEX AND MARITAL STATUS

Age Group	Sex	Single	Married	Widowed	Divorced	N/S	Total
10 - 14	M	7,929	92	21	-	116	8,158
	F	6,773	13	75	17	116	6,994
	M+F	14,702	105	96	17	232	15,152
15 - 19	M	21,882	819	84	-	91	22,876
	F	19,536	1,317	4,234	84	125	25,296
	M+F	41,418	2,136	4,318	84	216	48,172
20 - 24	M	22,371	7,535	721	39	179	30,845
	F	8,808	4,811	8,909	388	187	23,103
	M+F	31,179	12,346	9,630	427	366	53,948
25 - 29	M	14,830	23,730	1,817	103	100	40,580
	F	2,920	7,133	9,491	653	78	20,275
	M+F	17,750	30,863	11,308	756	178	60,855
30 - 34	M	5,935	26,857	1,764	79	62	24,697
	F	547	4,515	4,921	1,030	48	11,061
	M+F	6,482	31,372	6,685	1,109	110	35,658
35 - 39	M	2,498	28,904	1,766	153	85	33,406
	F	265	3,605	4,485	1,055	59	9,469
	M+F	2,763	32,509	6,251	1,208	144	42,875
40 - 44	M	801	22,578	1,739	344	79	25,541
	F	98	2,042	3,355	1,326	33	6,854
	M+F	899	24,620	5,094	1,670	112	32,395
45 - 49	M	500	14,424	1,060	286	22	16,292
	F	112	939	2,136	990	44	4,221
	M+F	612	15,363	3,196	1,276	66	20,513
50 - 54	M	249	7,365	814	285	-	8,713
	F	25	542	1,490	905	-	2,962
	M+F	274	7,907	2,304	1,190	-	11,675

TABLE 11. Cont'd

55 - 59	M	102	3,958	457	133	20	4,670
	F	28	306	780	748	22	1,884
	M+F	130	4,264	1,237	881	42	6,554
60 - 64	M	70	2,981	606	207	-	3,864
	F	47	301	712	763	-	1,823
	M+F	117	3,283	1,318	970	-	5,687
65 - 69	M	56	1,559	330	144	-	2,089
	F	-	110	328	362	-	800
	M+F	56	1,669	658	506	-	2,889
70 - 74	M	-	839	181	183	-	1,203
	F	12	16	138	191	9	366
	M+F	12	855	319	374	9	1,569
75 - 79	M	71	258	73	75	-	477
	F	-	17	46	51	-	114
	M+F	71	275	119	126	-	591
80 - 84	M	-	149	58	52	-	259
	F	-	9	19	37	-	65
	M+F	-	158	77	89	-	324
85 and over	M	-	169	41	20	-	230
	F	-	16	24	34	12	86
	M+F	-	185	65	54	12	316
Not Stated	M	257	970	-	-	25	1,252
	F	27	56	127	17	50	277
	M+F	284	1,026	127	17	75	1,529
Town Total	M	77,551	143,187	11,532	2,103	779	235,152
	F	39,298	25,748	41,270	8,651	783	115,650
	M+F	116,849	168,935	52,802	10,754	1,562	350,802

TABLE 12

EMPLOYED PERSONS BY AGE - GROUP, SEX & OCCUPATION

OCCUPATION	SEX	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+	N.S.	TOTAL
Professional, Tech.	M	73	408	1991	3792	3674	3737	2515	1498	576	317	702	115	19398
	F	39	402	1161	1320	723	726	248	163	113	-	38	-	4933
	M+F	112	810	3152	5112	4397	4463	2763	1661	689	317	740	115	24331
Administrative	M	-	11	44	146	266	417	414	155	21	22	48	-	1544
	F	-	-	19	31	-	12	11	-	-	-	-	-	73
	M+F	-	11	63	177	266	429	425	155	21	22	48	-	1617
Clerical & Related	M	100	894	2789	3467	3071	2737	1982	1088	445	101	139	84	16897
	F	22	909	3381	3083	1310	658	91	90	22	-	34	22	9622
	M+F	122	1803	6170	6550	4381	3395	2073	1178	467	101	173	106	26519
Sales Workers	M	1693	4552	4438	5159	4310	3723	2834	1474	1003	538	1267	137	31128
	F	495	1398	1310	1539	1461	1803	1370	895	765	748	914	8	12706
	M+F	2188	5950	5748	6698	5771	5526	4204	2369	1768	1286	2181	145	43834
Service Workers	M	3001	6437	6946	9571	7301	7201	6385	4691	2519	1664	2580	293	58589
	F	5623	18720	14098	11013	5369	4168	3143	1916	997	520	927	184	66678
	M+F	8624	25157	21044	20584	12670	11369	9528	6607	3516	2184	3507	477	125267
Agricultural & Related	M	433	262	225	374	330	375	505	306	218	113	256	21	3418
	F	10	45	43	9	22	27	44	13	-	-	21	-	234
	M+F	443	307	268	383	352	402	549	319	218	113	277	21	3652
Production, Related	M	2582	9930	14174	17868	15694	15178	10515	7052	3910	1890	3081	628	102802
	F	420	3298	2701	2901	2090	1886	1766	1109	1025	556	1231	27	19010
	M+F	3002	13228	16875	20769	17784	17064	12281	8161	4935	2446	4312	655	121812
Workers not Clasf.	M	276	382	238	203	51	38	91	28	21	25	39	-	1392
	F	385	524	390	379	86	189	165	35	40	60	89	36	2378
	M+F	661	906	628	582	137	227	256	63	61	85	128	36	3770
Town Total	M	8158	22876	30845	40580	34697	33406	25541	16292	8713	4670	8112	1278	235168
	F	6994	25296	23103	20275	11061	9469	6838	4221	2962	1884	3254	277	115634
	M+F	15152	48172	53948	60855	45758	42875	32379	20513	11675	6554	11366	1555	350802

TABLE 13 EMPLOYED POPULATION AGED 10 & OVER BY INDUSTRY, SEX AND AGE-GROUP

INDUSTRY	SEX	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+	N.S.	TOTAL
Agricultural and Related	M	351	249	197	366	174	273	287	84	143	63	148	-	2335
	F	30	127	111	70	-	31	59	57	11	-	54	-	550
	M+F	381	376	308	436	174	304	346	141	154	63	202	-	2885
Mining & Quarrying	M	10	24	90	192	220	276	256	197	38	53	133	-	1489
	F	-	26	28	-	35	20	-	-	-	-	-	-	133
	M+F	10	50	118	192	255	296	256	197	38	53	133	-	1622
Manufacturing	M	2414	6614	7888	9144	7476	7121	5066	3032	1888	952	1747	208	53550
	F	370	3333	2849	2900	1579	1478	1221	969	492	319	914	28	16452
	M+F	2784	9947	10737	12044	9055	8599	6287	4001	2380	1271	2661	236	70002
Electricity	M	11	77	304	1016	910	650	603	293	169	109	118	23	4283
	F	-	40	68	115	54	69	20	-	-	-	-	-	366
	M+F	11	117	372	1131	964	719	623	293	169	109	118	23	4649
Construction	M	20	510	865	1793	1932	2200	1537	1110	713	312	495	102	11589
	F	-	123	236	135	200	84	43	-	-	43	-	-	864
	M+F	20	633	1101	1928	2132	2284	1580	1110	713	355	495	102	12453
Trade	M	2503	7112	7352	7957	6167	5176	4070	2166	1280	708	1694	210	46395
	F	796	4237	5682	5584	3553	3604	2849	1753	1517	1071	1378	21	32045
	M+F	3299	11349	13034	13541	9720	8780	6919	3919	2797	1779	3062	231	78440
Transport	M	85	934	2326	3477	3767	3433	2340	1586	865	192	310	126	19441
	F	-	119	429	645	376	214	67	35	11	-	-	23	1919
	M+F	85	1053	2755	4122	4143	3647	2407	1621	876	192	310	149	21360
Financing	M	-	24	328	383	500	546	401	250	98	8	9	41	2788
	F	29	126	421	416	171	129	26	12	9	-	-	-	1339
	M+F	29	150	749	999	671	675	427	262	107	8	9	41	4127
Community, Social & personal services	M	2443	6761	10928	15436	13099	13151	10474	7219	3379	2234	3340	539	89003
	F	5339	16500	12655	9848	4810	3526	2413	1315	870	391	819	180	58596
	M+F	778	23261	23583	25284	17909	16677	12887	8534	4249	2625	4159	719	147599
Other Activity	M	321	571	567	616	452	580	507	355	140	39	118	29	4295
	F	430	641	624	562	283	314	210	80	52	60	89	25	3370
	M+F	751	1212	1191	1178	735	894	717	435	192	99	207	54	7665
	M	8158	22876	30845	40580	34697	33406	25541	16292	871	4670	8112	1278	235168
	F	6994	25296	23103	20275	11061	9469	6838	4221	2962	1824	3254	277	115634
	M+F	15152	48172	53948	60855	45758	42875	32379	20513	11673	7554	11366	1555	350802

TABLE 14 EMPLOYED PERSONS AGED 10 AND OVER BY OCCUPATION, SEX AND STATUS

Occupation	Sex	Employer	Employee	Own account worker	Unpaid family worker	other	Total
Professional Tech.	M	448	17,657	898	48	347	19,398
	F	46	4,517	310	25	25	3,933
	M+F	504	22,174	1,208	75	372	24,331
Administrative	M	104	1,419	-	-	21	1,544
	F	11	31	-	-	31	73
	M+F	115	1,450	-	-	52	1,617
Clerical & Related	M	190	15,933	221	153	400	16,897
	F	45	9,306	42	94	135	9,622
	M+F	235	25,239	263	247	535	26,519
Sales workers	M	4,807	7,874	15,381	2,641	425	31,128
	F	1,545	1,698	8,233	925	305	12,706
	M+F	6,352	9,572	23,614	3,566	730	43,834
Service workers	M	683	46,025	8,509	633	2,539	58,589
	F	969	59,575	2,356	2,205	1,573	66,678
	M+F	1,852	105,600	10,865	2,838	4,112	125,267
Agriculture & Related	M	117	2,615	248	270	168	3,418
	F	20	169	18	27	-	234
	M+F	137	2,784	266	297	168	3,652
Production & Related	M	5,592	71,337	19,213	3,002	3,658	102,802
	F	787	8,225	7,575	1,783	640	19,010
	M+F	6,379	79,562	26,788	4,785	4,298	121,812
Other	M	-	141	77	55	1,119	1,392
	F	-	243	53	216	1,866	2,378
	M+F	-	384	130	271	2,985	3,770
Town Total	M	12,141	163,001	44,547	6,802	8,677	235,168
	F	3,433	83,764	18,587	5,275	4,575	115,634
	M+F	15,574	246,765	63,134	12,077	13,252	350,802

TABLE 15 EMPLOYED PERSONS AGED 10 AND OVER BY INDUSTRY, SEX AND STATUS

Industry	Sex	Employer	Employee	Own account workers	Unpaid Family Workers	Other	Total
Agriculture & Related	M	106	1,561	271	248	149	2,335
	F	27	417	79	27	-	550
	M+F	133	1,978	350	275	149	2,885
Mining & Quarr.	M	33	991	165	-	300	1,489
	F	20	51	-	-	62	133
	M+F	53	1,042	165	-	362	1,622
Manufacturing	M	4,218	29,342	15,118	2,718	2,154	53,550
	F	591	9,463	4,160	1,677	561	16,452
	M+F	4,809	38,805	19,278	4,395	2,715	70,002
Electricity	M	23	4,111	53	-	96	4,283
	F	-	366	-	-	-	366
	M+F	23	4,477	53	-	96	4,649
Construction	M	163	9,554	1,263	32	577	11,589
	F	-	771	42	11	40	864
	M+F	163	10,326	1,305	43	617	12,453
Trade	M	5,188	21,813	15,725	2,957	712	46,395
	F	2,575	14,841	12,330	1,895	404	32,045
	M+F	7,763	36,654	28,055	4,852	1,116	78,440
Transport	M	1,263	15,718	1,857	299	304	19,441
	F	22	1,864	9	-	24	1,919
	M+F	1,285	17,582	1,866	299	328	21,360
Financing	M	25	2,550	76	-	137	2,788
	F	-	1,066	-	-	273	1,339
	M+F	25	3,616	76	-	410	4,127
Community, Social & personal services	M	1,122	74,719	9,736	440	2,986	89,003
	F	198	53,803	1,827	1,449	1,319	58,596
	M+F	1,320	128,522	11,563	1,889	4,305	147,599
Other Activities	M	-	2,642	283	108	1,262	4,295
	F	-	1,122	140	216	1,892	3,370
	M+F	-	3,764	423	324	3,154	7,665
Town total	M	12,141	163,001	44,547	6,802	8,677	235,168
	F	3,433	83,764	18,587	5,275	4,575	115,634
	M+F	15,574	246,765	63,134	12,077	13,252	350,802

TABLE-16

EMPLOYED PERSONS AGED 10 & OVER BY INDUSTRY, SEX & OCCUPATION

INDUSTRY	SEX	PROF. & TECH.	ADMIN. & MANG.	CLERC. & RELATED	SALES WORKERS	SERVICES WORKERS	AGRICULTURE	PRDUC. & RELATED	WORKERS NOT CLASSIFIED	TOTAL
Agriculture	M	168	45	110	108	309	1410	185	-	2335
	F	24	-	86	38	242	135	25	-	550
	M+F	192	45	196	146	551	1545	210	-	2885
Mining & Quarrying	M	71	10	76	86	230	-	1016	-	1489
	F	-	-	-	-	33	-	100	-	133
	M+F	71	10	76	86	263	-	1116	-	1622
Manufacturing	M	1049	341	1433	1260	4368	189	44888	22	53950
	F	170	22	952	257	2690	18	12301	42	16452
	M+F	1219	363	2385	1517	7058	207	57189	64	70002
Electricity	M	533	30	720	451	806	19	1724	-	4283
	F	35	-	145	-	151	-	35	-	366
	M+F	568	30	865	451	957	19	1759	-	4649
Construction	M	628	39	455	41	2400	152	7861	13	11589
	F	109	-	270	35	266	-	184	-	864
	M+F	737	39	725	76	2666	152	8045	13	12453
Trade	M	693	236	1992	27893	12082	112	3378	9	46395
	F	79	39	2091	11730	13349	10	4747	-	32045
	M+F	772	275	4083	39623	25431	122	8125	9	78440
Transport	M	1421	141	2292	169	1975	38	13380	25	19441
	F	94	12	1195	-	422	-	196	-	1919
	M+F	1515	153	3487	169	2397	38	13576	25	21360
Financing	M	780	138	1100	88	380	23	251	28	2788
	F	123	-	665	241	310	-	-	-	1339
	M+F	903	138	1765	329	690	23	251	28	4127
Community, Social & personal services	M	13710	518	8399	942	35074	1291	29069	-	89003
	F	4267	-	3839	316	48782	71	1282	39	58596
	M+F	17977	518	12238	1258	83856	1362	30351	39	147599
Other Activities	M	345	46	320	90	965	184	1050	1295	4295
	F	32	-	379	89	433	-	140	2297	3370
	M+F	377	46	699	179	1398	184	1190	3592	7665
Town Total	M	19398	1544	16897	31128	58589	3418	102802	1392	235168
	F	4933	73	9622	12706	66678	234	19010	2378	115634
	M+F	24331	1617	26519	43834	125267	3652	121812	3770	350802

TABLE 17 EMPLOYED PERSONS AGED 10 & OVER BY HIGHEST GRADE COMPLETED, SEX & OCCUPATION

Grade Completed	Sex	Prof. & Tech.	Admin. & Mang.	Clerc. & Related	Sales Workers	Services Workers	Agriculture	Produc. & Ref.	Workers Not cla.	Total
Illiterate	M	847	32	972	15,021	33,366	2,076	38,540	495	91,329
	F	428	-	391	9,971	34,479	106	12,986	1,491	79,852
	M+F	1,275	52	1,363	24,992	87,845	2,182	51,526	1,976	171,181
No Grade/Literate	M	749	-	448	1,626	2,632	103	5,726	67	11,351
	F	77	11	39	103	677	-	756	136	1,799
	M+F	826	11	487	1,729	3,309	103	5,982	203	12,650
Primary grad -1-	M	9	-	11	491	819	56	984	36	2,406
	F	-	-	-	77	967	-	150	27	1,221
	M+F	9	-	11	568	1,786	56	1,134	63	3,627
Prim. Grade -2-	M	70	-	188	1,231	1,680	84	2,851	67	6,171
	F	42	-	56	103	1,357	-	470	93	2,121
	M+F	112	-	244	1,334	3,037	84	3,321	160	8,292
Prim. Grade -3-	M	82	-	288	1,335	1,739	88	4,042	49	7,623
	F	79	8	88	161	1,551	-	600	46	2,535
	M+F	161	8	376	1,496	3,290	88	4,642	97	10,158
Prim. Grade -4-	M	156	13	311	1,002	1,951	26	4,790	33	8,282
	F	117	-	125	186	1,258	36	655	44	2,421
	M+F	273	13	436	1,188	3,209	62	5,445	77	10,703
Prim. Grade -5-	M	261	11	631	1,097	1,867	73	5,070	65	9,075
	F	116	-	114	116	1,139	9	661	99	2,254
	M+F	377	11	745	1,213	3,006	82	5,731	164	11,329
Prim. grade -6-	M	757	59	998	1,042	2,197	69	6,939	33	12,094
	F	279	-	501	290	1,399	25	915	43	3,452
	M+F	1,036	59	1,499	1,332	3,596	94	7,854	76	15,546
Jnr. Sec. Grade -7-	M	359	-	763	584	909	29	3,593	48	6,285
	F	198	-	376	298	526	-	252	30	1,640
	M+F	557	-	1,139	882	1,435	29	3,845	78	7,925
Jnr. Sec. Grade -8-	M	941	57	1,471	728	1,161	13	5,245	46	9,662
	F	500	-	1,013	417	558	9	547	51	3,095
	M+F	1,441	57	2,484	1,145	1,719	22	5,792	97	12,757
SNR. Sec. Grade -9-	M	393	63	701	329	669	22	2,451	44	4,672
	F	183	-	489	112	125	-	214	9	1,132
	M+F	576	63	1,190	441	794	22	2,665	53	5,804
SNR. Sec. Grade -10-	M	832	58	1,434	562	518	73	2,286	111	5,878
	F	258	-	679	204	168	-	205	43	1,557
	M+F	1,090	58	2,113	766	686	73	2,493	156	7,435
SNR. Sec. Grade -11-	M	890	89	1,350	376	397	73	1,647	22	4,844
	F	285	-	813	63	97	-	128	9	1,395
	M+F	1,175	89	2,163	439	494	73	1,775	31	6,239
SNR. Sec. Grade -12-	M	3,890	353	3,924	963	574	105	2,805	65	12,679
	F	791	-	2,371	277	153	40	248	13	3,893
	M+F	4,681	353	6,295	1,240	727	145	3,053	78	16,572

TABLE 17 EMPLOYED PERSONS AGED 10 & OVER BY HIGHEST GRADE COMPLETED, SEX & OCCUPATION

Grade Completed	Sex	Prof. & Tech.	Admin. & Mang.	Clero. & Related	Sales Workers	Services Workers	Agriculture	Produc. & Ret.	Workers Not cls.	Total
Sec/Com/Tec/School	M	1,221	112	529	189	89	57	661	26	2,884
	F	469	-	1,775	109	11	-	124	-	2,488
	M+F	1,690	112	2,304	298	100	57	785	26	5,372
Sec. Teachers Edtn.	M	418	-	142	13	12	-	26	-	611
	F	243	-	59	-	-	-	-	-	302
	M+F	661	-	201	13	12	-	26	-	913
Post Sec. Edu.	M	445	24	89	30	25	17	279	-	909
	F	106	-	58	14	49	-	-	-	227
	M+F	551	24	147	44	74	17	279	-	1,136
University Incompl.	M	525	84	308	100	52	24	139	-	1,232
	F	18	12	94	-	18	-	-	-	142
	M+F	543	96	402	100	70	24	139	-	1,374
University Cert.	M	62	-	33	17	-	-	21	14	147
	F	-	-	-	-	-	-	17	-	17
	M+F	62	-	33	17	-	-	38	14	164
University Diploma	M	734	64	275	137	42	29	49	-	1,330
	F	120	-	164	-	-	-	-	-	284
	M+F	854	64	439	137	42	29	49	-	1,614
University BA/BSC	M	2,049	263	303	136	45	39	245	-	3,080
	F	169	-	75	-	26	-	-	17	287
	M+F	2,218	263	378	136	71	39	245	17	3,367
University MA/PHD	M	769	135	76	83	37	11	40	21	1,172
	F	77	-	17	-	-	-	-	-	94
	M+F	846	135	93	83	37	11	40	21	1,266
Priest, Koranic	M	1,851	64	1,040	3,404	6,620	255	11,452	43	24,729
	F	82	11	68	151	985	9	384	58	1,748
	M+F	1,933	75	1,108	3,555	7,605	264	11,836	101	26,477
Adult Literacy	M	37	22	128	601	48	739	-	-	1,575
	F	31	13	21	415	-	58	11	-	549
	M+F	68	35	149	1,016	48	797	11	-	2,124
Attending University	M	527	24	260	78	36	27	117	-	1,069
	F	119	31	92	-	-	-	-	-	242
	M+F	646	55	352	78	36	27	117	-	1,311
Post Sec. Commercial	M	194	22	114	53	27	-	84	-	494
	F	57	-	59	-	18	-	14	-	148
	M+F	251	22	173	53	45	-	98	-	642
Not Stated	M	330	17	216	373	524	31	1,979	115	3,585
	F	89	-	93	73	702	-	126	156	1,239
	M+F	419	17	309	446	1,226	31	2,105	271	4,824
Total Town	M	19,398	1,544	16,897	31,128	58,589	3,418	102,802	1,392	235,168
	F	4,933	73	9,622	12,706	66,678	234	19,010	2,378	115,634
	M+F	24,331	1,617	26,519	43,834	125,267	3,652	121,812	3,770	350,802

TABLE 18

UNEMPLOYED POPULATION 10 YEARS & OVER BY AGE GROUP AND MARITAL STATUS

AGE GROUP	SEX	SINGLE	MARRIED	WIDOWED	DIVORCED	NS	TOTAL
10-14	M	445					445
	F	1089	11	36			1136
	M+F	1534	11	36			1581
15-19	M	2354		29	14	22	2419
	F	4266	410	523	23	83	5405
	M+F	6620	410	652	37	105	7824
20-24	M	2733	212	45		20	3010
	F	1996	595	1485	103	8	4287
	M+F	4729	907	1530	103	28	7297
25-29	M	1396	532	98	13	21	2060
	F	312	255	1435	187		2189
	M+F	1708	787	1533	200	21	4249
30-34	M	360	546	152		26	1084
	F	35	269	603	104	18	1029
	M+F	395	815	755	104	44	2113
35-39	M	167	540	54	17	13	731
	F	21	184	297	57		559
	M+F	188	724	351	74	13	1360
40-44	M	69	536	80		9	714
	F		93	337	33		463
	M+F	69	629	417	33	9	1197
45-49	M	11	408	32	14		465
	F		70	87	59		216
	M+F	11	478	119	73		681
50-54	M		243	126	43		412
	F			51	10		61
	M+F		243	177	53		473
55-59	M		169	8		13	190
	F			26			26
	M+F		169	34		13	216
60-64	M	18	73	14			105
	F			18	9		27
	M+F	18	73	32	9		132
65-69	M		31				31
	F			14	13		27
	M+F		31	14	13		58
70-74	M		9	18			27
	F						
	M+F		9	18			27
20-84	M						
	F				25		25
	M+F				25		25
Not Stated	M		12	25			37
	F	14		25			39
	M+F	14	12	50			76
TOWN TOTAL	M	7573	3311	691	101	174	11790
	F	7753	1987	5037	653	109	15519
	M+F	15306	5298	5718	754	283	27309

TABLE 19—UNEMPLOYED PERSONS WITH PREVIOUS WORK EXPERIENCE BY AGE-GROUP, SEX AND OCCUPATION

OCCUPATION	SEX	A G E G R O U P											N/S	TOTAL	
		10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+			
PROFESSIONAL, TECHN															
	F		18		26	10		12					9		75
	M+F		18		36	10		12					9		10
ADMINISTRATIVE....															65
	F							8							8
	M+F							8							8
CLERICAL & RELATED															
	F			45	14										59
	M+F			45	14										59
SALES WORKERS.....															
	F			75	20	47	46	59	19	9	12	11			298
	M+F			75	20	71	73	59	19	9	12	9			60
SERVICE WORKERS...															358
	F	22	98	12	59	20	29	40	32	45					354
	M+F	20	169	149	82	88	37	68	33	13			14	14	627
AGRICULTURE, RELATED		42	267	161	140	108	66	108	65	58			14	14	1043
	F				20										20
	M+F				20										20
PRODUCTION, RELATED															
	F		11	120	130	88	55	105	35	25	95	67			731
	M+F	12	19	43	13	13	13	105	10	25	95	67			123
NOT STATED		12	30	163	143	101	68	105	45	25	95	67			854
	M		26	13			26	30							108
	F		17	52	13	39	17	26	13	13					194
	M+F		43	65	13	39	43	56	13	30					302
	M	22	153	220	254	165	156	254	86	92	107	87			1596
TOWN TOTAL	F	32	205	239	132	164	94	94	56	30		23	14		1133
	M+F	54	358	509	386	329	250	348	142	122	107	110	14		2729

TABLE 20-UNEMPLOYED PERSONS WITH PREVIOUS WORK EXPERIENCE BY AGE-GROUP, SEX & INDUSTRY

INDUSTRY	SEX	A G E G R O U P											N/S	TOTAL		
		10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+				
AGRICULTURE&RELATD	M				10											10
	F															
	M+F				10											10
MINING & QUARRYING	M										14					14
	F															
	M+F										14					14
MANUFACTURING.....	M			11	74	79	38		57	12	11	12	31			325
	F	12	9	12				13		10						56
	M+F	12	20	86	79	38	13	57	22	11	12	31				381
CONSTRUCTION-----	M		18	23	33	29	38	23	17		33	9				223
	F		10	10												20
	M+F		28	33	33	29	38	23	17		33	9				243
TRADE-----	M		18	55	29	56	40	59	29	21	12	21				340
	F		56	40	7	38	27	12				9				189
	M+F		74	95	36	94	67	71	29	21	12	30				529
TRANSPORT-----	M			14	19	21	31	12			14					111
	F															
	M+F			14	19	21	31	12			14					111
FINANCING-----	M								12							12
	F															
	M+F								12							12
Community, social & personal services	M	22	80	41	72	11	21	61	14	33	50	26				431
	F	20	99	121	85	87	37	56	33	13		14	14			579
	M+F	42	179	162	157	98	58	117	47	46	50	40	14			1010
OTHER ACTIVITIES	M		26	13	12	10	26	30		13						130
	F		31	106	40	39	17	26	13	17						289
	M+F		57	119	52	49	43	56	13	30						419
	M	22	153	220	254	165	156	254	86	92	107	87				1596
TOWN TOTAL	F	32	205	289	132	164	94	94	56	30		23	14			1133
	M+F	54	358	509	386	329	250	348	142	122	107	110	14			2729

TABLE-21-UNEMPLOYED PERSONS WITH PREVIOUS WORK EXPERIENCE BY AGE-GROUP,SEX & STATUS

AGE-GROUP	SEX	EMPLOYER	EMPLOYEE	OWN ACCOUNT WORKER	UNPAID FAMILY WORKER	OTHER	TOTAL
10-14	M		22				22
10-14	F		32				32
	M+F		54				54
15-19	M		77	22		54	153
15-19	F		135			70	205
	M+F		212	22		124	358
20-24	M	14	146	23	24	13	220
20-24	F		125	10		154	289
	M+F	14	271	33	24	167	509
25-29	M	11	149	52		42	254
25-29	F		78			54	132
	M+F	11	227	52		96	386
30-34	M	20	103	42			165
30-34	F	11	86	28		39	164
	M+F	31	189	70		39	329
35-39	M		94	12		50	156
35-39	F	14	23	26		31	94
	M+F	14	117	38		81	250

TABLE-21-UNEMPLOYED PERSONS WITH PREVIOUS WORK EXPERIENCE BY AGE-GROUP, SEX & STATUS

AGE-GROUP	SEX	EMPLOYER	EMPLOYEE	OWN ACCOUNT WORKER	UNPAID FAMILY WORKER	OTHER	TOTAL
40-44	M	19	109	101		25	254
40-44	F		54			40	94
	M+F	19	163	101		65	348
45-49	M		53	9		24	86
45-49	F		33	10		13	56
	M+F		86	19		37	142
50-54	M		47	20		25	92
50-54	F		13			17	30
	M+F		60	20		42	122
55-59	M	12	51	8		36	107
	M+F	12	51	8		36	107
60-64	M		9	35		12	56
60-64	F			9			9
	M+F		9	44		12	65
65-69	M	9		8		14	31
65-69	F		14				14
	M+F	9	14	8		14	45
Not Stated	F		14				14
	M+F		14				14
	M	85	850	332	24	295	1596
TOWN TOTAL	F	25	607	83		418	1133
	M+F	110	1467	415	24	713	2729

Table 22. FEMALE POPULATION AGED 10 AND OVER BY AGE GROUP AND NUMBER OF CHILDREN BORN IN THE LAST 12 MONTHS

Age Group	Total Females	Total Mothers	Children Now Living		Children Dead		Total Children Born Alive	
			Male	Female	Male	Female	Male	Female
10 - 14	75,782	12	12				12	
15 - 19	83,151	3,397	1,680	1,652	166	119	1,846	1,771
20 - 24	62,636	10,678	5,163	4,839	588	422	5,751	5,261
25 - 29	61,991	11,743	5,665	5,233	660	531	6,325	5,764
30 - 34	37,034	5,213	2,212	2,501	370	399	2,582	2,900
35 - 39	34,383	3,365	1,587	1,422	337	265	1,924	1,687
40 - 44	24,410	928	409	371	175	222	584	593
45 - 49	15,648	281	151	65	65	27	216	92
50 - 54	12,054	84	21	66	42	9	63	75
55 - 59	9,032	62	20	9	11	22	31	31
60 - 64	9,821	47	8		39	28	47	28
65 - 69	6,148	42	20	18	14		34	18
70 - 74	4,430	12			12		12	
75 - 79	1,675	31			12	38	12	38
80 - 84	1,896	24	10		14		24	
85 & Over	1,240							
Not Stated	1,071	24	24				24	
Total	442,402	35,943	16,982	16,176	2,505	2,082	19,487	18,258

TABLE 23

FEMALE POPULATION AGED 10 AND OVER BY AGE GROUP AND NUMBER OF CHILDREN
EVER BORN ALIVE - NO CHILDREN LIVING AT HOME, ELSEWHERE AND DEAD

AGE GROUP	TOTAL		AT HOME		ELSEWHERE		DEAD		TOTAL	
	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	FEMALE
10-14	75782	555	373	105	53	101	87	761	513	
15-19	83151	4310	4438	1011	834	781	658	6102	5930	
20-24	62636	26542	26097	4535	4521	5617	4072	36694	34690	
25-29	61991	59164	58129	11169	9323	15256	10968	65589	78420	
30-34	37034	48246	48791	10277	9206	14893	10819	73416	68816	
35-39	34383	51489	53151	13276	12204	17766	13824	82531	79179	
40-44	24410	29820	29971	12935	12635	16139	11809	58944	54415	
45-49	15648	16040	15938	8469	8105	11485	8448	35994	32491	
50-54	12054	8265	8308	7183	8478	9643	6464	25091	23250	
55-59	9032	4028	4813	5810	6105	7656	5592	17494	16510	
60-64	9821	3216	3637	6264	6695	8579	6364	18059	16696	
65-69	6148	2020	2066	4881	4434	5740	4636	12641	11136	
70-74	4430	1039	1238	2717	2910	4417	3393	8173	7541	
75-79	1675	380	526	1477	1240	1825	1354	3682	3120	
80-84	1896	568	629	1515	1248	2077	1634	4160	3511	
85 and over	1240	343	423	893	840	1254	673	2490	1936	
Not Stated	1071	348	343	276	194	202	81	826	519	
TOTAL	442402	256373	258871	92843	89025	123431	90876	472647	438772	

TABLE 24

FEMALE POPULATION 10 YEARS OF AGE AND OVER BY AGE-GROUP
AND NUMBER OF CHILDREN BORN ALIVE

AGE GROUP	TOTAL FEMALE	FEMALE POPULATION WITH INDICATED NUMBER OF CHILDREN BORN ALIVE											NO. OF CHILDREN BORN ALIVE		
		0	1	2	3	4	5	6	7	8	9	10 & OVER		N/S	
10-14	75782	75549	40	10	9	28	33	55			11	24	23		1274
15-19	83151	75180	5777	1580	350	110	57	21			22		54		12032
20-24	62636	27898	14150	10876	5783	2650	784	300		94	31	10	60		71364
25-29	61991	11737	9411	10628	10325	8256	5790	3059	1509	706	338	232			164009
30-34	97034	4486	4019	4583	4397	4927	4495	3821	2985	1545	945	831			142232
35-39	34333	3695	3016	3263	3589	3591	3635	3197	2907	2907	1545	945	831		142232
40-44	24410	3338	2421	2264	2434	2230	2154	2257	1686	1779	1495	2352			161710
45-49	15543	2477	1905	1512	1426	1474	1224	1184	975	1044	696	1630			113359
50-54	17054	2310	1470	1144	1290	951	1112	1075	660	650	392	1000			68485
55-59	9532	1601	1205	1172	1102	747	828	533	295	424	373	672			48341
60-64	9821	1983	1593	1158	1044	853	601	610	531	247	380	681			34004
65-69	6148	1258	823	633	555	595	468	388	340	303	262	513			34755
70-74	4430	959	677	499	389	354	346	305	346	151	164	240			23777
75-79	1675	337	171	143	209	147	121	119	101	94	134	99			15724
80-84	1896	414	233	146	180	162	77	162	195	107	95	124			6802
85 and over	1240	391	81	84	109	125	112	71	98	63	48	58			7671
Not Stated	1071	684	100	79	54	31	9	61	10	18		25			4425
TOTAL	442402	214307	47093	39904	33325	27241	21846	17218	12833	10019	7535	11081			911409

TABLE 25

NON-MIGRANT WOMEN AGED TEN YEARS AND OVER BY AGE-GROUP
AND NUMBER OF CHILDREN BORN ALIVE

AGE GROUP	TOTAL FEMALE	FEMALE POPULATION WITH INDICATED NUMBER OF CHILDREN BORN ALIVE											NO. OF CHILD- REN BORN ALIVE		
		0	1	2	3	4	5	6	7	8	9	10 & OVER		N/S	
10-14	51224	51112	11				33	33				24	11		722
15-19	37974	35741	1551	514	91	33		223	109	40	22		22		3424
20-24	15796	8574	2847	2356	1089	545	223	109	40	22			13		15165
25-29	9843	2076	1065	1646	1565	1147	999	692	267	178	34	74			27484
30-34	5027	606	393	429	746	731	560	510	603	204	145	100			20518
35-39	5362	436	257	416	557	626	582	369	516	548	562	493			28740
40-44	3446	623	230	216	345	287	190	296	292	307	324	336			16979
45-49	2258	437	168	169	164	166	148	204	191	191	120	300			11248
50-54	1478	356	70	179	166	65	109	127	87	74	103	142			6360
55-59	1145	187	189	144	113	199	56	78	35	37	30	77			4065
60-64	1454	314	134	250	191	140	96	53	68	29	48	131			5207
65-69	600	142	113	86	66	45	26	26		37	40	19			1822
70-74	546	59	88	49	59	66	66	30	84	14		31			2201
75-79	293	29	53	11	43	33	42	39		22	16				1105
80-84	162	26	12	21			16	29			27	31			861
85 and over	133	37	20	9	18	27		10				12			428
Not Stated	751	200		16							18	17			363
TOTAL	136992	100955	7205	6511	5313	4110	3146	2605	2183	1681	1473	1809			146713

TABLE 26

URBAN MIGRANT WOMEN AGE TEN YEARS AND OVER BY AGE-GROUP
AND NUMBER OF CHILDREN BORN ALIVE

AGE GROUP	TOTAL FEMALE	FEMALE POPULATION WITH INDICATED NUMBER OF CHILDREN BORN ALIVE											NO. OF CHILDREN BORN ALIVE				
		0	1	2	3	4	5	6	7	8	9	10 OR OVER		N/S			
10-14	9314	9248	17	10		17		22									237
15-19	18046	15715	1645	469	148	48		21									3345
20-24	18556	8082	4409	3105	1836	721	250	831	109	12	11	10	11				21308
25-29	19531	3555	3297	3330	3108	2656	1863	831	578	169	111	33					21010
30-34	11734	1480	1293	1466	1425	1571	1367	1072	920	479	382	279					44752
35-39	10164	1096	987	976	1021	961	1124	997	812	892	524	774					47428
40-44	6899	867	656	732	802	677	672	574	404	466	346	701					31679
45-49	5165	739	643	548	591	607	349	392	353	276	182	485					21647
50-54	3408	601	469	373	373	271	319	297	122	163	80	340					13613
55-59	2453	478	351	240	498	120	227	118	45	146	98	132					8535
60-64	3014	607	493	334	288	219	269	171	248	58	126	201					10941
65-69	1605	347	189	126	148	192	171	73	85	107	75	92					6113
70-74	954	230	93	116	32	65	73	33	52	58	42	110					3910
75-79	371	85	10	37	36	31	42	23	19	11	49	27					1623
80-84	567	89	121	37	36	46	16	72	30	65	21	34					2346
85 and over	318	94	11	38	21	21	32	14	22	33	32						1184
Not Stated	174	59	45	8	34			28									331
TOTAL	112273	43373	14729	11945	10447	8223	6774	4847	3702	2934	2080	3219					270002

TABLE 27

RURAL MIGRANT WOMEN AGED TEN YEARS AND OVER BY AGE-GROUP
AND NUMBER OF CHILDREN BORN ALIVE

AGE GROUP	TOTAL FEMALE	FEMALE POPULATION WITH INDICATED NUMBER OF CHILDREN BORN ALIVE											NO. OF CHILDREN BORN ALIVE			
		0	1	2	3	4	5	6	7	8	9	10 OR OVER		N/S		
10-14	14960	14905	12			9	11					11		12		315
15-19	26768	23420	2544	597		111	29	35						32		5116
20-24	27998	11078	6875	5325	2858	1384	298		82	42	20			36		34607
25-29	32304	5965	4988	5599	5542	4431	2918	1536	848	359		193	125			85068
30-34	19854	2279	2319	2606	2158	2558	2531	2228	1443	862	418	452				75920
35-39	18467	2060	1731	1845	1994	1930	1912	1791	1571	1374	1080	1181				84091
40-44	13901	1824	1835	1246	1259	1249	1292	1387	976	1006	823	1304				84201
45-49	8104	1264	1084	895	643	678	719	574	431	577	394	845				85279
50-54	7084	1315	905	592	751	615	684	651	451	413	198	509				28090
55-59	5356	916	554	774	571	428	534	337	215	219	245	463				21133
60-64	5276	1020	965	590	565	494	236	386	315	160	206	338				18429
65-69	3869	779	521	421	341	333	258	289	255	159	125	388				15339
70-74	2853	570	460	334	248	223	166	242	210	79	122	99				9378
75-79	1001	222	103	95	130	83	37	57	82	51	69	72				3994
80-84	1141	299	100	88	144	116	28	61	166	42	38	59				4298
85 and over	789	260	50	37	70	77	80	47	76	30	16	46				2814
Not Stated	292	127	44	30	10	31	9	33				8				539
TOTAL	190019	68403	24991	21074	17404	14670	11737	9701	6881	5362	3927	5969				488669

TABLE 28 POPULATION BY SEX, FATHERS' SURVIVAL AND AGE-GROUP OF RESPONDENTS

AGE-GROUP OF RESPONDENTS	MALES WITH FATHER				FEMALES WITH FATHER				TOTAL POPULATION WITH FATHER			
	ALIVE	DEAD	NS	TOTAL	ALIVE	DEAD	NS	TOTAL	ALIVE	DEAD	NS	TOTAL
0-4	84356	2859	364	88089	83405	3250	334	87490	167772	6109	1698	175579
5-09	74383	5290	622	80295	76432	6381	915	83728	150815	11671	1537	164023
10-14	58797	8079	344	67220	65669	9694	419	75782	124466	17775	763	143002
15-19	46996	12554	327	59877	64735	18000	416	83151	111731	30554	743	143028
20-24	32257	12470	285	45012	43590	18714	332	62636	75847	31184	617	107648
25-29	27357	13569	399	46325	35915	25909	167	61991	63272	44478	566	108316
30-34	17984	20316	213	38515	16760	20100	174	37034	34744	40418	387	75549
35-39	14012	22447	239	36698	11567	22722	94	34383	25579	45169	333	71081
40-44	7177	21114	287	28578	5235	19098	76	24410	12413	40212	363	52989
45-49	3554	15154	104	18912	2313	13271	64	15648	5967	28425	168	34660
50-54	1563	10291	82	11876	981	11021	52	12054	2484	21312	134	23930
55-59	584	7484	72	8140	376	8609	47	9032	960	16093	119	17172
60-64	359	7781	84	8224	260	9536	25	9821	619	17317	109	18045
65-69	207	4913	42	5162	104	6008	36	6148	311	10921	78	11310
70-74	77	3778		3855	94	4327	9	4430	171	8105	9	8285
75-79	75	1807	11	1893	12	1663		1675	87	3470	11	3568
80-84	44	1400		1444	58	1829	9	1896	102	3229	9	3340
85 and over	75	1151	10	1237	77	1163		1240	153	2314	10	2477
Not Stated	620	864	845	2329	333	385	353	1071	953	1249	1198	3400
TOTAL	370528	178323	4830	553681	407918	201680	4022	613620	778446	380003	8852	1167301

TABLE 29 POPULATION BY SEX, MOTHERS' SURVIVAL AND AGE-GROUP OF RESPONDENTS

AGE-GROUP OF RESPONDENTS	MALES WITH MOTHER				FEMALES WITH MOTHER				TOTAL POPULATION WITH MOTHER			
	ALIVE	DEAD	NS	TOTAL	ALIVE	DEAD	NS	TOTAL	ALIVE	DEAD	NS	TOTAL
0-4	85861	507	721	88089	66157	549	584	87490	173018	1156	1405	175579
5-9	78043	1649	503	80295	31125	1808	795	83728	159168	3457	1393	164023
10-14	63581	3363	276	67220	71331	4152	299	75782	134912	7515	575	143002
15-19	53122	5480	275	59877	73655	9083	413	83151	125777	15563	583	143028
20-24	37289	7475	243	45012	50925	11364	347	52636	83214	18839	595	107648
25-29	34097	11827	401	46325	45503	16173	215	61991	79700	28000	615	108316
30-34	25447	12852	206	39515	23391	13396	247	37034	48838	26258	453	75549
35-39	21527	14921	250	36698	18980	15393	110	34383	40407	30314	350	71081
40-44	12770	15530	278	28578	10099	14181	130	24410	22869	29711	408	52988
45-49	5959	11837	116	18912	4667	10901	80	15648	11626	22738	195	34560
50-54	3199	8584	93	11876	2333	9534	87	12054	5532	18218	180	23930
55-59	1651	5432	57	5140	1221	7786	25	9032	2872	14218	82	17172
60-64	867	7297	50	8224	749	9034	38	9821	1616	15331	98	18045
65-69	391	4729	42	5162	355	5730	63	6148	746	10459	105	11310
70-74	119	3736		3855	162	4268		4430	281	8004		8285
75-79	113	1764	11	1893	12	1663		1675	130	3427	11	3568
80-84	59	1375		1444	59	1823		1896	137	3203		3340
85 and over	124	1103	10	1237	53	1182		1240	182	2285	10	2477
Not Stated	881	614	334	2329	416	313	342	1071	1297	927	1175	3400
TOTAL	427115	122085	4481	553681	471207	138538	3875	613620	898322	260623	8356	1167301

SAMPLE DESIGN AND ESTIMATION1. Sample Design

The city of Addis Ababa is divided into 25 Keftenyas* and 289 Kebeles (urban dwellers association areas). The 289 Kebeles were delineated into 1060 enumeration areas so as to serve as statistical frame for surveys and censuses.

A stratified Uni-Stage cluster (area) Sampling was adopted for this survey. The entire 1060 enumeration areas of the city were stratified by Keftenyas, and constituted the sampling frame. Taking into consideration the available time and resources, it was decided to select 80 enumeration areas and survey every household in each selected enumeration area. The total number of households covered were 20357. The 80 enumeration areas were allocated proportionally to Keftenyas according to their population size, with an additional restriction that at least two enumeration areas should be selected from each Keftenya so as to enable the calculation of an unbiased sampling variance (error) of estimates of various population characteristics. To overcome possible effects due to variation in size, enumeration areas were selected with probability proportional to size, size being the population result obtained at the time of August 1978 housing registration.

2. Estimation

Based on the sample design outlined, the following estimating formula has been used to estimate population characteristics.

$$\hat{Y}_{st} = \sum_{h=1}^{25} \sum_{i=1}^{nh} \sum_{j=1}^{H_{hi}} \frac{Y_{hij}}{nh \Phi_i}$$

*The city is administratively divided into "Keftenyas" (Higher Kebele), and Kebeles" (urban dwellers association areas). A convenient groupings of a number of Kebeles, Kebele being the lowest administrative level, make up the Keftenyas. The 25 Keftenyas make up the "ATEKALAY" or the Addis Ababa city council.

$$\begin{aligned}
 &= \sum_{h=1}^{25} \sum_{i=1}^{nh} \frac{Y_{hi}}{nh \Phi_{hi}} \\
 &= \sum_{h=1}^{25} \sum_{i=1}^{nh} \frac{\hat{Y}_{hi}}{nh} \quad \begin{array}{l} i = 1, 2, \dots, nh \\ j = 1, 2, \dots, H_{hi} \\ h = 1, 2, \dots, 25 \end{array}
 \end{aligned}$$

Where:-

Y_{hij} = characteristic Y observed on the j^{th} household in i^{th} selected EA from the h^{th} Higher Kebele.

H_{hi} = total number of households of the i^{th} selected EA of the h^{th} Higher Kebele.

nh = Total number of EA'S sampled from the h^{th} Higher Kebele.

Φ_{hi} = probability of selecting the i^{th} EA from the h^{th} Higher Kebele.

$$\hat{Y}_{hi} = \frac{Y_{hi}}{\Phi_{hi}}$$

= estimator of Y_h based on the i^{th} selected EA of h^{th} Higher Kebele.

\hat{Y}_{st} = estimator of the population value of the Y characteristic based on all sampled households.

3. Sampling Error Estimates

Estimates of the various population characteristics have been generated from the sampled households, and are therefore, subjected to sampling variations. The magnitude of the sampling variations are measured by the sampling error. Sampling error is a measure of deviation of the sample estimate from the population value estimate that

could have been derived by complete enumeration using the same questionnaire and procedure. In other words, sampling error measures how closely results obtained from a sample correspond to the results which would have been obtained if a complete count had been taken. As a general rule the larger the sample size the smaller the sampling error.

Sampling errors of the major population characteristics given in the Table are calculated using the following formula:-

$$\hat{V}(\hat{Y}_{st}) = \sum_{h=1}^{25} \sum_{i=1}^{nh} \frac{(\hat{Y}_{hi} - \hat{Y}_h)^2}{nh(nh-1)}$$

where, $\hat{V}(\hat{Y}_{st})$ is the sampling variance (error) of the estimate \hat{Y}_{st} .

The ratio of the standard error (the square root of the sampling error) to the value being estimated is called coefficient of variation.

As can be observed from the Table, the population of Addis Ababa is estimated to be 1,167,300 with standard error of 18,585 and 1.5% coefficient of variation. Because of the presence of sampling error, we can say with 95% confidence that the population of Addis Ababa will be within the range of 1,167,300 $\pm 2(18,585)$ (that is between 1,130,130 and 1,207,470) and with 99% confidence, the population size would be within the range of 1,167,300 $\pm 3(18,585)$. Like wise, similar interpretation can be made with the remaining estimates of characteristics. Since coefficient of variations of the various estimates indicated in the Table are below 6%, one can say that these estimates show more or less a high degree of precision.