



**IMPERIAL ETHIOPIAN GOVERNMENT  
CENTRAL STATISTICAL OFFICE**

**REPORT ON A SURVEY  
OF  
ADWA**

3163  
ETH  
1000

**ADDIS ABABA**

**NOVEMBER 1966**



1

**IMPERIAL ETHIOPIAN GOVERNMENT  
CENTRAL STATISTICAL OFFICE**

**REPORT ON A SURVEY  
OF  
ADWA**

የኢትዮጵያ ግዛት ገቢ ጽ/ቤት  
የኢትዮጵያ ግዛት ገቢ ጽ/ቤት  
የኢትዮጵያ ግዛት ገቢ ጽ/ቤት

**ADDIS ABABA**

**NOVEMBER 1966**

# I N D E X

	Page
Urban Survey in Ethiopia	1
Introduction to Adwa	2
Climate: Temperature and Rainfall	2
<u>CHAPTER I POPULATION STRUCTURE &amp; OTHER CHARACTERISTICS</u>	4
Total Population	4
Sex Ratio	4
Age Structure	5
Language	7
Religion	7
Marital Condition	7
Literacy	9
Residence	9
<u>CHAPTER II HOUSEHOLD AND HOUSING DATA</u>	11
Household Size	11
Size of Housing Units by Household	11
Construction Of Housing Units by Households	12
Household Water Supply	12
Household Toilet Facilities	12
Households Terms of Tenure	13
<u>CHAPTER III OCCUPATIONAL &amp; INDUSTRIAL DATA</u>	14
OCCUPATION	14
Industrial Establishments	15
<u>APPENDIX</u>	
Note on Fertility	
Appendix Table I	Population by age group, sex & Marital status
Appendix Table II	Population by age group, Sex & Religion
"        "    III	Population by age group, sex & Nationality
"        "    IV	Population by age group, sex & Literacy
"        "    V	Population by age group, sex & Mother Language
"        "    VI	Population by age group, sex & period of Residence
"        "    VII	Working Population by Broad age group, sex and Occupation
"        "    VIII	Size of Household by No. of Rooms Occupied
"        "    IX	Size of Household by No. of Households Sharing
Appendix Form 2A/57	
Appendix Form 2/57	
Appendix Form 3/57	
Appendix Form 4/57	

## URBAN SURVEYS IN ETHIOPIA

Purposes of the Surveys: To establish as quickly as possible reliable estimates of the urban population of Ethiopia as a concomitant part of the National Sample Survey. To establish an industry frame in which a census of industry can be developed. To establish a frame of wholesale and retail outlets in urban areas which can be used to develop work in distribution.

Description of coverage: It is intended to cover all urban areas of estimated population of over 5,000. To date 22 towns nearly all over 10,000 have been completed. The survey is intended to cover all the de facto civil population of the towns in a total count of the persons who slept on the premises on a given night. The household population only is covered in a 10% sample of households to which is added a sample duplication to raise the estimates to total town population.

Collection of Information: This is done by the C.S.O. permanent staff of field enumerators, during the rainy season when work in the agricultural areas cannot continue, augmented by staff from the Ministry of Interior. The frame for the sampling of households was ad-hoc built up on form 2/57 included in the appendix to this report.

The Sampling: This was based on a random number which, for each enumerator, was his personal serial number and then every tenth household recorded in columns 'a', 'b' and 'c' of Form 2/57.

Date: The surveys were carried out in August - September 1965, on average, the towns took between 5 and 7 days each.

Accuracy: It is considered a high degree of completeness of coverage was obtained in the list of premises and sample results in all towns were satisfactory.

Cost: The total cost of covering 20 towns excluding basic salaries of permanent employees was Eth. \$12,000.

Training and Control was carried out by the C.S.O. and supervision was effected by visits to each team by statisticians. This was made possible by allocating each team to one of the five radial roads leading out of Addis Ababa. Tabulation was effected by hand in respect of establishments and by punched cards for the population sample.

## Introduction

Adwa is one of the older towns of Ethiopia and it was formerly the capital of Tigre. It was a very important market for the northern region and merchants used to come to Adwa from Beghemdir, Wello, Eritra and all over Tigre. In 1896, the Battle of Adwa adversely affected not only the town but the countryside as well. It took a long time for Adwa to recover from the destruction caused by the famous battle between Ethiopia and Italy, where Italy was decisively defeated.

Adwa is located in the relatively rich northwestern part of the Governorate General of Tigre. It is on a very important junction of roads coming from Asmara in the north, from Gonder via Axum in the west, Mekele in the south and from Adigrat in the east. It is about 372 km. from Gonder, 103 km. from Adigrat, 157 km. from Asmara and 227 km. from Mekele. It may however, be noted that Adwa is really made up of two towns: Adi aboon and Adwa.

The town is almost in the centre of the Tigrean plateau and has an average elevation of about 1900 m. above sea level. Although it is in a depression formed by the headstreams of the Gurangura, a tributary of the Wer'ee, which itself is a tributary of the Tekkeze it is surrounded by high and imposing mountains that rise to over 2400 m. above sea level.

The conditions of climate in Adwa are given in the following tables for rainfall and temperature. The data for rainfall were compiled at the Geography Department of the Haile Selassie I University and those for temperature (rather incomplete) were collected from the Office of Climatology.

Temperature  
(in degrees centigrade)  
Adwa, 1965

Month	Average Maximum	Average Minimum
January	26.2	3.4
February	28.2	7.7
March	29.3	10.7
April	29.8	12.8
May	-	-
June	-	-
July	-	-
August	-	-
September	-	-
October	-	-
November	-	-
December	-	-
Average Annual	-	-

Rainfall  
(in millimetres)

Adwa Lat. 14° 04' n Elev. Metre 1980

Months	Av. Monthly	No. of R. Days	Highest Rainfall in 24 hours
January	0.0	0	0.0
February	1.1	1	3.2(56)
March	1.3	1	2.0(56)
April	43.0	5	23.0(56)
May	5.3	1	7.0(54)
June	57.9	10	40.0(54)
July	230.8	21	45.0(56)
August	309.4	21	50.0(54)
September	193.2	13	61.5(54)
October	25.3	1	41.0(56)
November	2.7	1	4.0(55)
December	1.0	1	3.0(55)
Total	871.0	76	
H.A. Rfl.		1008.7(56)	
L.A. Rfl.		707.1(55)	
Y. of D.	3	3	3

CHAPTER I. POPULATION STRUCTURE AND OTHER CHARACTERISTICS

Total Population.

In Guida, the population of Adwa is given as 6000. That was about 1938. The present census has enumerated 12450 persons in 1965. This represents an increase of 107.5% in 27 years or an average annual increase of nearly 3% (2.8%). The estimate of the population of Adwa for 1962 based on the Ministry of Interior reporting, was 11,531. The above figure for 1965 does not include people in the military camp and members of their households.

Foreign nationals in Adwa represent only 0.6% of the total population 62.5% of them being females.

TABLE I  
TOTAL POPULATION

	M A L E		F E M A L E		T O T A L	
	Number	%	Number	%	Number	%
ETHIOPIANS	5,330	99.4	7,040	99.3	12,370	99.4
FOREIGNERS	30	0.6	50	0.7	80	0.6
TOTAL	5,360	100.0	7,090	100.0	12,450	100.0

Sex Ratio

Table 2 below sets out the sex ratio of the population of Adwa by broad age groups. Of the total population almost 57% are females. The ratio of the sexes is closest among children of 0 - 14 years of age, where there are 97.5 males for every 100 females. The widest gap between the numbers of the sexes is in the age group of 30-44 years where there are 43.7 males for every 100 females. In many other Ethiopian towns it is usually the 15-29 years age group that shows the largest discrepancy between the number of the sexes. Also in many towns, the older age groups have more males than females. But in Adwa males consistently form a minority in all age groups. Such a general imbalance indicates lack of opportunity for employment of the economically active age groups of males.

TABLE 2  
SEX RATIO

AGE GROUP	MALE	FEMALE	MALE PER 100 FEMALE
0 - 14	2,690	2,760	97.5
15 - 29	990	1,520	65.1
30 - 44	730	1,670	43.7
45 - 59	650	730	89.0
60 & Over	300	410	73.2
TOTAL	5,360	7,090	75.6

Age Structure:

The population of Adwa is not only predominantly female, it is also predominantly young, 54.4% of the total population being under 20 years of age. Those under 15 years of age alone account for 43.7% of the total population, while school aged children (i.e. 5-14 years) constitute 30.7%. In fact 76.4% of the total population is under 40 years of age.

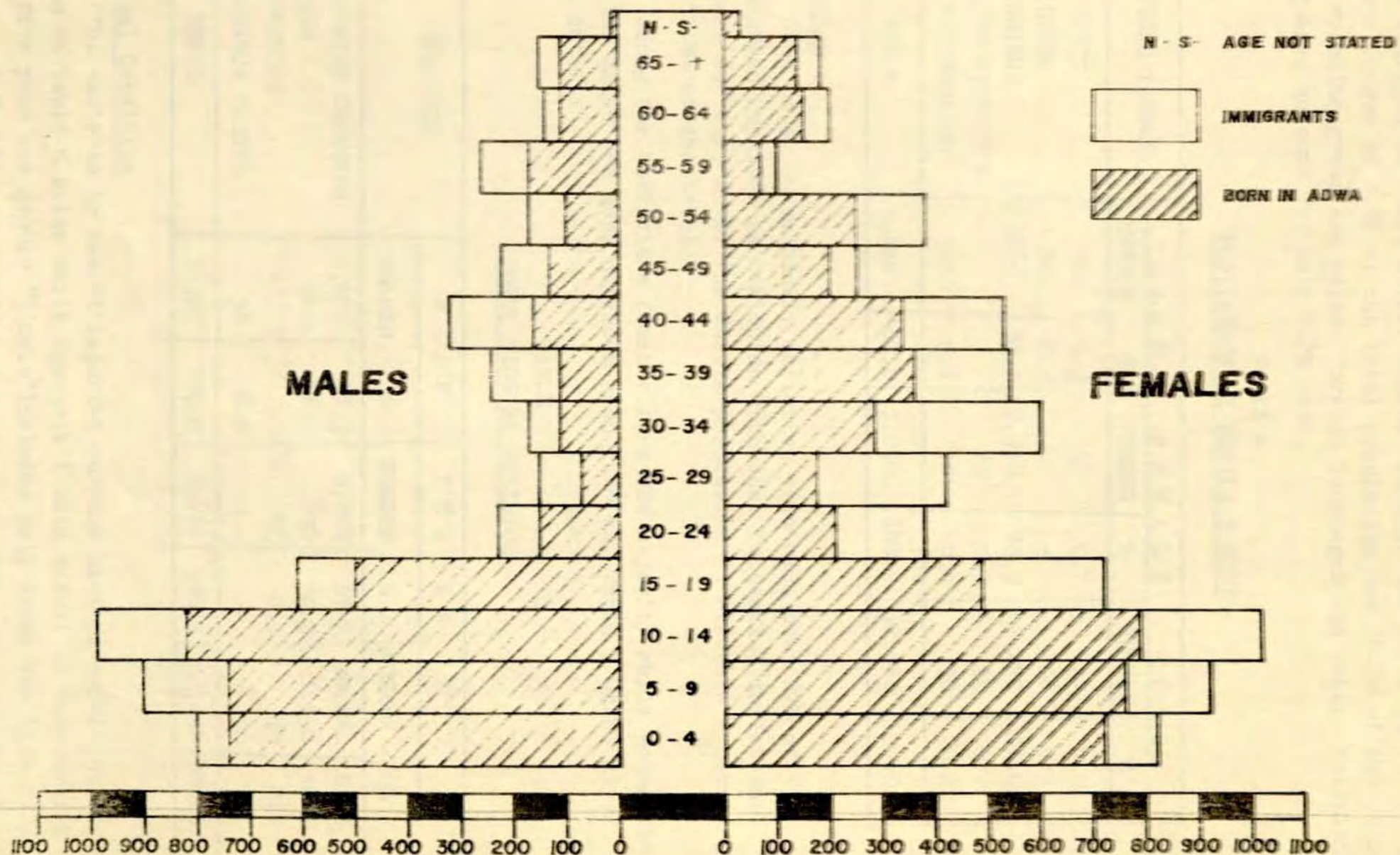
Taking the sexes separately, only some 39% of the females but over 50% of the males fall under 15 years of age, while just over 49% of the females but 61.6% of the males are under 20 years of age. However only 20.7% of the males, but nearly 35% of the females fall in the age groups of 20-44 years while 12.2% of the males and 10.3% of the females are in the age groups of 45-59 years.

The dependent populations i.e. those under 15 years of age and those 60 years and over, account for almost half (49.1%) of total population which is obviously very high mostly due to the large number of those under 15 years of age.

TABLE 3  
Age & Sex Distribution

AGE GROUP	MALE		FEMALE		TOTAL	
	NUMBER	%	NUMBER	%	NUMBER	%
0 - 4	800	14.9	820	11.6	1,620	13.0
5 - 9	900	16.8	920	12.9	1,820	14.6
10 -14	990	18.5	1,020	14.4	2,010	16.1
15 -19	610	11.4	720	10.2	1,330	10.7
20 -24	230	4.3	380	5.4	610	4.9
25 -29	150	2.8	420	5.9	570	4.6
30 -34	170	3.2	600	8.5	770	6.2
35 -39	240	4.5	540	7.6	780	6.3
40 -44	320	5.9	530	7.5	850	6.8
45 -49	220	4.1	250	3.5	470	3.8
50 -54	170	3.2	380	5.4	550	4.4
55 -59	260	4.9	100	1.4	360	2.9
60 -64	140	2.6	200	2.8	340	2.7
65 & Over	150	2.8	180	2.5	330	2.7
Not stated	10	0.9	30	0.4	40	0.3
TOTAL	5,360	100.0	7,090	100.0	12,450	100.0

# POPULATION PYRAMID FOR THE CITY OF ADWA



### Language:

It was reported that almost all the population (98.6%) of Adwa have Tigrigna as their mother tongue. Amharic was reported to be the mother tongue of 0.9% of the total population, and 58.3% of the Amharic speaking group are males. Foreign languages and other Ethiopian languages account for only 0.2% each.

TABLE 4  
POPULATION BY MOTHER TONGUE

MOTHER TONGUE	M A L E		F E M A L E		T O T A L	
	NUMBER	%	NUMBER	%	NUMBER	%
AMHARIC	70	1.3	50	0.7	120	0.9
GALIGNA	10	0.2	-	-	10	0.1
TIGRIGNA	5,260	98.1	7,010	98.9	12,270	98.6
OTHER ETHIOPIAN	-	-	20	0.3	20	0.2
OTHER FOREIGN	20	0.4	10	0.1	30	0.2
TOTAL	5,360	100.0	7,090	100.0	12,450	100.0

### Religion

Adwa is a predominantly christian town with over 87% of its population reported as Ethiopian Orthodox. Protestant christians account for only 0.1%. The Muslim population is sizeable accounting for 12.4% of the total.

Among the christians females form the majority while among the muslims males are more numerous than females. Table 5 below given more detail.

TABLE 5  
POPULATION BY RELIGION

RELIGION	M A L E		F E M A L E		T O T A L	
	NUMBER	%	NUMBER	%	NUMBER	%
ETHIOPIAN ORTHODOX	4,490	83.7	6,370	89.9	10,860	87.2
MUSLIM	840	15.7	710	10.0	1,550	12.3
PROTESTANT	-	-	10	0.1	10	0.1
OTHER-NOT STATED	30	0.6	-	-	30	0.2
TOTAL	5,360	100.0	7,090	100.0	12,450	100.0

### Marital Condition

The analysis by sex of reported current marital condition is given in Table 6 below while Appendix I sets detail of same by sex and five year age groups. "Single" includes only those who have never been married while "married" refers to those who were in wedlock at the time of the survey irrespective of the number of times married.

The age of marriage for both sexes starts quite early, but there seems to be a wide gap between the ages of husbands and wives. This assumption is revealed from the fact that 20.3% of all married women but only 4.6% of the total married men are under 25 years of age and just over 51% of all married women but 30.5% of all married men are 25 - 39 years of age. Or nearly 72% of all married women but only 35.3% of all married men are under 40 years of age.

Despite the fact that marriage for both sexes starts at an early age, only 28.6% of the total population (or 25.7% of all females and 32.5% of all males) are married, conforming with the reported fact that a large portion of the population is too young to marry and also of the adults a good number of them are either widowed or divorced.

The widowed account for 5.6% of the total population and 94.3% of them are females. Whereas only 0.7% of the total males are widowers 9.3% of the females are widows. All the widowers are over 50 years of age while over 31.8% of the widows are under 50 years of age.

The divorced constitute 10.6% of the total population, and 92.4% of them are females. Of the total females, over 17% are divorced while divorced men account for less than 2% of all males. 20% of all divorced men, but 55.7% of all divorced females are under 40 years of age.

Of the total population well over 55% are single and only slightly over 50% of all reported single persons are males. Taking the sexes separately, nearly 65% of all males are single while single females account for 47.8% of all females.

Excluding those under 10 years of age, however, there are more reported single men (nearly 52% of all single persons 10 years of age and over) than single females, and this could probably be explained by the earlier age of marriage for women than for men.

TABLE 6  
MARITAL CONDITION

MARITAL CONDITION	M A L E		F E M A L E		T O T A L	
	NUMBER	%	NUMBER	%	NUMBER	%
SINGLE	3,480	64.9	3,390	47.8	6,870	55.2
MARRIED	1,740	32.5	1,820	25.7	3,560	28.6
WIDOWED	40	0.7	660	9.3	700	5.6
DIVORCED	100	1.9	1,220	17.2	1,320	10.6
TOTAL	5,360	100.0	7,090	100.0	12,450	100.0

## Literacy

In conformity with international practice literacy is here recorded for persons of ten years of age and over. Literate is also taken to include only those persons who can both read and write. But those who reported ability to read only have been entered separately in table 7, to meet that part of the Ethiopian tradition, where people learn to read only.

Of the total population with ages of 10 years and over 28,4% are literate and 1.7% can only read. But of the total literate, nearly 72% are men. Taking each sex of 10 years and above, 50.3% of the males but only 13.5% of the females are literate.

Appendix IV gives detail of literacy by five year age groups and sex. Considering the ages of the literate population of Adwa, 67.2% of the total literate are under 25 years of age. By sex, 59.8% of the literate males and 86% of the literate females are under the age of 25 years. Thus concentration of literacy, especially of the females, in the younger age groups is apparent.

Among the males, the most literate age group is the 20-24 years with almost 74% literacy closely followed by the 15-19 years age group with nearly 69% literacy. The least literate age group is the 50-54 years age group with 17.6% literacy.

Among the females, it is the 10-14 years age group that is the most literate with 38.2% literacy followed by the 15-19 years age group with 26.4% literacy. In the older age groups literacy is very low and in some cases nil.

TABLE 7  
LITERACY

LITERACY	M A L E		F E M A L E		T O T A L	
	NUMBER	%	NUMBER	%	NUMBER	%
LITERATE	1,840	50.3	720	13.5	2,560	28.4
READ ONLY	70	1.9	80	1.5	150	1.7
ILLITERATE	1,750	47.8	4,550	85.0	6,300	69.9
TOTAL	3,660	100.0	5,350	100.0	9,010	100.0

## Residence:

Nearly three-fourth (72.4%) of the total population of Adwa are reported to have been born in the town. Of those born in the town more than half (55.3%) are females. But within each sex, just over three fourths (75.2%) of all males were born in the town while the percentage of females born in the town is only slightly over 70%. This group is mostly young with close to 62% of its total under the age of 20 years. Especially the male population in this category is predominantly young with 72% of its population under 20 while the

females under 20 years of those born in the town comprise 55.4% of the female total.

Those who have lived in Adwa for less than one year account for 5.6% of the total population and nearly 65% of them are females. The female population of this group is predominantly young with almost 65% of it under 20 years of age. Even with the male population, a large portion (55%) is under 20 years of age.

The group that has lived in Adwa for 1-5 years constitutes almost 9% of the total population and 61.3% of them are females. Relatively speaking, the number of young people in this group is small with only 38.7% under 20 years of age.

The oldest immigrant group, those who have lived in the town for 6 or more years account for 14% of the total population and 60.2% of them are females. The proportion of young people among this group is quite small, only 23.3% of the total in the group being under 20 years of age.

It is clear that recent immigrants to the town have been mostly young as well as female.

TABLE 8  
POPULATION BY YEARS OF RESIDENCE

POPULATION	M A L E		F E M A L E		T O T A L	
	NUMBER	%	NUMBER	%	NUMBER	%
BORN IN ADWA	4,030	75.2	4,980	70.2	9,010	72.4
RESIDING	200	3.7	370	5.2	570	4.6
LESS THAN 1 YEAR						
1 - 5 YEAR	430	8.0	680	9.6	1,110	8.9
6 & Over	700	13.1	1,060	15.0	1,760	14.1
TOTAL	5,360	100.0	7,090	100.0	12,450	100.0

የአስተዳደር ቤቱ ጽ/ቤት  
 ቤት ጽ/ቤት  
 S. S. Q. Library

CHAPTER II. HOUSEHOLD AND HOUSING DATA

Household Size

According to the present census, the total number of households in Adwa is 3200. This gives 3.9 persons as the average size of household in the town.

As can be seen from Table 9 below, almost 16% of the households consist of one person each, while 17.8% have two persons each. Households of three persons each account for a further 21.6% and those of 4 or 5 persons each constitute 22.8% of the total households leaving nearly 22% of the households each consisting of 6 or more persons.

TABLE 9  
PERCENTAGE DISTRIBUTION OF HOUSEHOLD BY SIZE OF HOUSEHOLD

SIZE OF HOUSEHOLD	1	2	3	4	5	6	7	8	9	10 & Over
% OF HOUSEHOLD	15.9	17.8	21.6	10.3	12.5	6.2	6.9	4.1	2.5	2.2

Size of Housing Units by Household

Well over three-fourth (78.4%) of the households live in one room housing units. A further 14.4% of the households have two roomed accommodation and only 6.2% live in units with 3 or more rooms. As a matter of fact, practically no households have 5 or more roomed accommodation.

Table 10 below and appendices VIII and IX show details on size of housing unit, size of household by number of rooms and number of households sharing. As regards the sharing of housing units by households, 12.2% of the 3200 households have not indicated whether they shared or not. However 76.6% of the households stated they did not share their accommodation and almost all of the remaining (10.3% of the households) share one housing unit for two households.

TABLE 10  
SIZE OF HOUSEHOLD BY NO OF ROOMS OCCUPIED

NO. OF ROOMS OCCUPIED	1	2	3	4	5	6	7	8 & Over	Not Stated
% OF HOUSEHOLDS	78.4	14.4	2.8	3.1	-	-	0.3	-	1.0

Construction of Housing Units by Households

Houses are classified on the basis of material of which they are made and their construction. Traditional type of houses are those which have walls made of wood or bamboo and plastered with mud. These houses may have roofs of corrugated iron sheets or simply thatched grass. Such houses, with roofs of corrugated iron sheets may be referred to as transitional. Almost two-thirds (66.5%) of the households live in the traditional type of which more than half have corrugated iron roofs. Nearly one - third (31.9%) of the households live in houses made of stone and corrugated iron. Table 11 below sets out these details.

TABLE 11  
HOUSEHOLD BY TYPE OF HOUSING UNITS

CONSTRUCTION	NUMBER OF HOUSEHOLDS	PERCENTAGE
STONE + THATCH	50	1.6
STONE + CORRUGATED IRON	1,020	31.9
TRADITIONAL + THATCH	970	30.3
TRADITIONAL + CORRUGATED IRON	1,160	36.2
TOTAL	3,200	100.0

Household Water Supply

More than two-thirds (68.4%) of the households have access to clean piped water for drinking and household purposes. But still, as many as 30.3% of the households get their water supply from streams and a further 1.3% from wells. These details are given in the following table.

TABLE 12  
HOUSEHOLD BY TYPE OF WATER SUPPLY

TYPE	NUMBER OF HOUSEHOLDS	PERCENTAGE
PIPED	2,190	68.4
WELL	40	1.3
STREAM	970	30.3
TOTAL	3,200	100.0

Household Toilet Facilities

The following table sets out the types of toilet facilities by number of households using them. Just over three-fourth (75.6%) of the total households do not have toilet facilities of any kind and only 0.3% have flush toilets, while the remaining (24.1%) use pits.

TABLE 13  
HOUSEHOLD BY TYPE OF TOILET FACILITIES

TYPE	NUMBER OF HOUSEHOLDS	PERCENTAGE
FLUSH	10	0.3
PIT	770	24.1
NONE	2,420	75.6
TOTAL	3,200	100.0

Households Terms of Tenure

Over two-fifth (41.3%) of the total households live in their own houses; but more than half (52.8%) live in rented quarters. A further 5.6% of the total households live in houses which being to other persons while 0.3% of the households have not indicated the type of tenure.

TABLE 14  
TENURE OF OCCUPIED DWELLING UNITS

TYPE	NUMBER OF HOUSEHOLDS	PERCENTAGE
OWNED	1,320	41.3
RENTED	1,690	52.8
OTHERS	180	5.6
NOT STATED	10	0.3
TOTAL	3,200	100.0

	OWNED	RENTED	OTHERS	NOT STATED	TOTAL	PERCENTAGE
OWNED	1,320				1,320	41.3
RENTED		1,690			1,690	52.8
OTHERS			180		180	5.6
NOT STATED				10	10	0.3
TOTAL	1,320	1,690	180	10	3,200	100.0

The population considered in this section is that of 10 years of age and over. It should also be noted that the term "not working" includes not only those who could not secure jobs but also those people who have no need to work. Thus the unemployed, renters, housewives and other unpaid family workers are classified under the category of "not working".

Table 15 below classifies the population of 10 years of age and over into "working" and "not working" by sex and broad age groups. 61.4% of the total population under consideration are not working and more than two-thirds (68%) of those reported not working are females. It is to be recalled that the population of Adwa is predominantly female as well as young. It seems that there is serious scarcity of jobs for people in the younger age groups as 86.4% of the total "not working" fall in the age groups of 10-44 years. Of the total population in the age groups of 10-44 years, over 69% are not working compared to just under 36% for those 45 years of age and above. It should, of course, be expected that a good number of those 10-19 years of age would be students and unpaid family workers. Considering the males of 10 years age and over almost half (49.2%) of them are not working. Of the males in the age groups of 10-44 years 62.7% are not working while the corresponding figure for the males aged 45 years and over is 11.2%.

The working population accounts for slightly over 39% of those aged 10 years and over and of these 46.6% are women. The proportion of those working is higher in the older age groups, 45 years and over, than in the younger age groups, 10-44 years. Of the total population in the former age groups, over 64% are working while the corresponding figure for the total in age groups of 10-44 years is just under 31%.

TABLE 15  
ECONOMICALLY ACTIVE AND NOT ACTIVE POPULATION

	AGE - GROUP				Total	Percent- age
	10-44	Percent- age	45 & Over	Percent- age		
NOT WORKING	4,780	69.1	750	35.9	5,530	61.4
MALE	1,700	24.6	100	4.8	1,800	20.0
FEMALE	3,080	44.5	650	31.1	3,730	41.4
WORKING	2,140	30.9	1,340	64.1	3,480	38.6
MALE	1,010	14.6	850	40.7	1,860	20.6
FEMALE	1,130	16.3	490	23.4	1,620	18.0
TOTAL	6,920	100.0	2,090	100.0	9,010	100.0

There are relatively few occupations reported in Adwa. Table 16 below gives the analyses of the 3480 persons working by main occupational groups and appendix VII gives further details. Nearly one-third (32%) of the total working population are engaged in services occupations and 85.6% of them are females mostly in the younger age groups of 10-44 years. Almost all of the male service workers are also in these same younger age groups.

Next, in number, to the service workers come those working on fabricating textile and leather products, with 15.8% of the total working population. Again most of these (61.8%) are females. Those engaged as farmers, farmworkers and graziers constitute 13.2% of the total working population and all reported are males.

TABLE 16  
POPULATION BY OCCUPATIONAL GROUPS

O C C U P A T I O N		No. of People	Percent- age
01	Technical Workers	10	0.3
02	Professors & Teachers	180	5.2
04	Not Specified	10	0.3
12	Managers & Administrators (Excepting Retail Stores)	160	4.6
13	Clerical Workers	290	0.6
20	Sales Workers	290	8.3
31	Farmers, Farmworkers & Graziers	460	13.2
51	Chauffeurs, Drivers & Delivery Men	20	0.6
54	Communication Occupation	10	0.3
61	On Metal & Metal Products	50	1.4
62	Textiles & Leathers	70	2.0
63	On Fabricating Textile & Leather Products	550	15.8
64	On Wood & Wood Products	20	0.6
66	Others Except Labourers	60	1.7
67	Labourers Except Farm, Mine & Service	310	8.9
70	Protective Service Workers	100	2.9
80	Service Workers (Except Protective)	1100	31.9
90	Occupations Unidentifiable or Not Reported	30	0.8
YY	Member of the Armed Forces	20	0.6
TOTAL		3480	100.0

#### Industrial Establishments

The total number of business establishments enumerated in Adwa was 198 with a total of 561 persons engaged in them. These people considered of 208 owners, 181 unpaid family workers and 172 employees. Obviously these establishments are mostly very small.

More than half (52%) of those engaged in these establishments are in commercial activities, while 29.1% are engaged in the services leaving only just under 19% in the manufacturing concerns. The average number of persons engaged in each of the 29 manufacturing concerns is less than 4 (3.7), showing that they are indeed small establishments. The following table sets out the number of establishments by industrial class and number of persons engaged in them.

TABLE 17  
NUMBER OF ESTABLISHMENTS BY INDUSTRIAL CLASS

INDUSTRY	Number of Estab- lishments	AVERAGE NUMBER OF PERSONS ENGAGED						
		Owners		Unpaid fam- ily workers		Employees		Total
		M	F	M	F	M	F	
Manufacturing	29	30	1	21	5	43	6	106
Commerce								
a) Whole Sale Trade	20	23	-	11	-	11	1	46
b) Retail Trade	110	108	4	89	17	27	1	246
Services	39	32	10	22	16	48	35	163
TOTAL	198	193	15	143	38	129	43	561

Provisional, unadjusted estimates based on data on births and deaths collected in 20 towns in Ethiopia give the rates below:

- (a) Crude birth rate 33.1 per 1000 persons  
 (b) General fertility rate 109.9 births per 100 women aged 15-49  
 (c) Gross reproduction rate 1.7 years.  
 (d) Age specific birth rates per 1000 women in each age group.

Age	Rate
15-19	80.4
20-24	184.9
25-29	168.0
30-34	134.2
35-39	90.3
40-44	29.9
45-49	9.6

- (e) Infant mortality rate (average 50 per 1000 livebirths exposure of six months)

Comparative rates for some East African Countries are:

Country	Year	Crude Birth rate (o/oo)	General fertility rate(o/oo)	Gross reproduction rate	Infant mortality rate a/(o/oo)
Tanganyika	1957	46	175	2.8	190
Kenya	1948	50	...	...	...
Uganda	1958-59	42	187	3.2	160
Zambia	1963	57	181	3.5	259
Ruanda	1957	52	220	3.3	137
Burundi	1947	47	173	2.6	121
Ethiopia(20 towns)	1965	33	110	1.7	75 b/

a/ With average exposure of 12 months. b/ Estimated.

The rates for the 20 Ethiopian towns appear rather too low as compared with other East African countries: the possible rural-urban differential in vital rates in Ethiopia cannot explain this. The infant mortality rate, for instance, is unrealistically low.

It is of course very well known that data on births and deaths collected in demographic enquiries without additional probes are subject to different types of errors and biases and the data for the 20 towns are no exception. The data on the average number of children ever born per woman is the set most defective, and the set that reveals the inconsistencies in the data. If that had not been so effective it could have yielded a total fertility rate which could serve as a check on the crude birth rate and the other fertility rates. The normal trend is for the average number of births per woman to rise from the age group 15-19 to about the age group 44-49 where the average may be expected to be the same for the other ages. The figures for the 20 towns rather rise as usual from 0.3 at the age group 15-19 to a maximum of 3.3 for the age group 40-44 and then begins to fall to 0.8 at the age group 65-69. This is very unusual.

The rates given should be regarded as provisional, until with the aid of more data and analytical adjustments, they can be revised.

**AGE GROUP AND FERTILITY DETAILS ALL TWENTY TOWNS TOGETHER \***

AGE GROUP IN YEARS	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65&Over	Not Stated	TOTAL
TOTAL POPULATION	21,310	19,660	18,490	21,190	16,770	16,160	12,060	7,320	6,830	3,590	3,480	5,760	610	153,230
TOTAL WOMEN	21,310	19,660	18,490	21,190	16,770	16,160	12,060	7,320	6,830	3,590	3,480	5,760	610	153,230
TOTAL CHILDREN BORN	21,250	15,720	7,700	5,670	3,720	3,370	3,010	3,410	6,070	3,230	3,040	4,840	390	81,420
NIL	30	2,720	4,210	3,920	2,220	2,390	1,480	620	150	120	50	210	40	18,060
1	20	730	3,300	3,820	2,570	2,100	1,460	580	90	30	70	40	50	14,910
2	10	220	1,920	2,720	2,240	1,880	1,250	730	90	40	10	70	50	11,210
3	-	170	730	2,120	1,700	1,590	1,010	400	70	10	40	100	50	7,990
4	-	40	320	1,310	1,590	1,120	1,020	380	100	70	10	180	20	6,160
5	-	50	200	850	1,100	1,030	720	390	60	50	70	150	-	4,670
6	-	-	100	380	740	970	610	230	20	20	50	50	10	3,180
7	-	-	10	210	490	680	450	190	80	10	30	60	-	2,220
8	-	20	-	130	200	360	440	90	40	10	30	40	-	1,360
9	-	-	-	60	200	670	610	300	60	-	80	70	-	2,050
10+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL CHILDREN BORN ALIVE NOW	100	6,290	23,070	45,980	48,510	53,290	40,340	17,240	3,550	1,300	2,610	4,620	660	247,560
TOTAL CHILDREN BORN LAST 12 MONTHS BORN ALIVE NOW	80	5,250	18,730	36,240	36,850	37,770	25,570	10,150	2,130	610	1,110	2,320	560	177,370
TOTAL CHILDREN BORN UNDER 1 YEAR OF AGE	-	1,580	2,990	3,560	2,250	1,460	360	70	10	-	-	-	10	12,290
TOTAL CHILDREN DIED UNDER 1 YEAR OF AGE	-	1,490	2,870	3,400	2,100	1,370	340	70	10	-	-	-	10	11,660
TOTAL CHILDREN BORN UNDER 1 YEAR OF AGE	-	650	2,360	4,970	5,140	7,280	5,570	2,800	380	220	410	700	50	30,530

\* Towns included are:-

ADWA  
ASBE TEFERI  
ASELA  
AXUM  
BAHIR DAR

DEBRE BIRHAN  
DEBRE MARKOS  
DEBRE ZEIT  
DESE  
DILLA

DIREDAWA  
GHION  
GONDAR  
HAGERE HIWOT  
HARAR

JIMA  
LEKEMT  
MAKELE  
SODDO  
YIRGALEM

POPULATION BY AGE GROUP, SEX AND MARITAL STATUS

APPENDIX TABLE I.

AGE GROUP	M A L E					F E M A L E				TOTAL	TOTAL BY AGE-GROUP
	SINGLE	MARRIED	WIDDWED	DIVORCED	TOTAL	SINGLE	MARRIED	WIDOWED	DIVORCED		
00 - 04	800	-	-	-	800	820	-	-	-	820	1,620
05 - 09	900	-	-	-	900	920	-	-	-	920	1,820
10 - 14	980	10	-	-	990	980	30	-	10	1,020	2,010
15 - 19	580	30	-	-	610	570	120	-	30	720	1,330
20 - 24	190	40	-	-	230	60	220	-	100	380	610
25 - 29	10	130	-	10	150	-	310	-	110	420	570
30 - 34	-	170	-	-	170	10	300	30	260	600	770
35 - 39	-	230	-	10	240	-	320	50	170	540	780
40 - 44	-	270	-	50	320	10	220	60	240	530	850
45 - 49	10	200	-	10	220	-	100	70	80	250	470
50 - 54	-	150	20	-	170	-	120	120	140	380	550
55 - 59	10	240	-	10	260	-	40	40	20	100	360
60 - 64	-	140	-	-	140	-	20	140	40	200	340
65 & Over	-	120	20	10	150	20	10	130	20	180	330
Not stated	-	10	-	-	10	-	10	20	-	30	40
<b>TOTAL</b>	<b>3,480</b>	<b>1,740</b>	<b>40</b>	<b>100</b>	<b>5,360</b>	<b>3,390</b>	<b>1,820</b>	<b>660</b>	<b>1,220</b>	<b>7,090</b>	<b>12,450</b>

POPULATION BY AGE GROUP, SEX AND RELIGION

APPENDIX TABLE II.

AGE GROUP	M A L E				F E M A L E				TOTAL BY AGE GROUP
	ETHIOPIAN ORTHODOX	MOSLEM	OTHER	TOTAL	ETHIOPIAN ORTHODOX	MOSLEM	OTHER	TOTAL	
00 - 04	620	170	10	800	650	170	-	820	1,620
05 - 09	780	120	-	900	800	120	-	920	1,820
10 - 14	850	140	-	990	950	70	-	1,020	2,010
15 - 19	560	50	-	610	660	60	-	720	1,330
20 - 24	180	50	-	230	320	60	-	380	610
25 - 29	90	60	-	150	390	30	-	420	570
30 - 34	120	50	-	170	530	70	-	600	770
35 - 39	210	30	10	240	490	50	-	540	780
40 - 44	310	10	-	320	520	10	-	530	850
45 - 49	180	30	-	220	240	10	-	250	470
50 - 54	100	70	-	170	350	20	10	380	550
55 - 59	240	20	-	260	70	30	-	100	360
60 - 64	110	20	10	140	200	-	-	200	340
65 & Over	130	20	-	150	170	10	-	180	330
NOT STATED	10	-	-	10	30	-	-	30	40
<b>TOTAL</b>	<b>4,490</b>	<b>840</b>	<b>30</b>	<b>5,360</b>	<b>6,370</b>	<b>710</b>	<b>10</b>	<b>7,090</b>	<b>12,450</b>

POPULATION BY AGE GROUP, SEX AND NATIONALITY

APPENDIX TABLE III.

AGE GROUP	M A L E S			F E M A L E S			TOTAL BY AGE GROUP
	ETHIOPIANS	FOREIGNERS	TOTAL	ETHIOPIANS	FOREIGNERS	TOTAL	
00 - 04	790	10	800	820	-	820	1,620
05 - 09	890	10	900	920	-	920	1,820
10 - 14	990	-	990	1,010	10	1,020	2,010
15 - 19	600	10	610	710	10	720	1,330
20 - 24	230	-	230	380	-	380	610
25 - 29	150	-	150	420	-	420	570
30 - 34	170	-	170	600	-	600	770
35 - 39	240	-	240	540	-	540	780
40 - 44	320	-	320	520	10	530	850
45 - 49	220	-	220	240	10	250	470
50 - 54	170	-	170	370	10	380	550
55 - 59	260	-	260	100	-	100	360
60 - 64	140	-	140	200	-	200	340
65 & Over	150	-	150	180	-	180	330
NOT STATED	10	-	10	30	-	30	40
TOTAL	5,330	30	5,360	7,040	50	7,090	12,450

POPULATION BY AGE GROUP, SEX AND LITERACY

APPENDIX TABLE IV.

AGE GROUP	M A L E S				F E M A L E S				TOTAL BY AGE GROUP
	NOT LITERATE	CAN READ	READ & WRITE	TOTAL	NOT LITERATE	CAN READ	READ & WRITE	TOTAL	
00 - 04	790	-	10	800	820	-	-	820	1,620
05 - 09	770	20	110	900	790	20	110	920	1,820
10 - 14	440	40	510	990	560	70	390	1,020	2,010
15 - 19	190	-	420	610	530	-	190	720	1,330
20 - 24	60	-	170	230	340	-	40	380	610
25 - 29	90	10	50	150	410	-	10	420	570
30 - 34	110	-	60	170	580	-	20	600	770
35 - 39	150	-	90	240	520	-	20	540	780
40 - 44	190	10	120	320	510	-	20	530	850
45 - 49	80	-	140	220	240	10	-	250	470
50 - 54	140	-	30	170	370	-	10	380	550
55 - 59	120	10	130	260	100	-	-	100	360
60 - 64	70	-	70	140	180	-	20	200	340
65 & OVER	100	-	50	150	180	-	-	180	330
NOT STATED	10	-	-	10	30	-	-	30	40
<b>TOTAL</b>	<b>3,310</b>	<b>90</b>	<b>1,960</b>	<b>5,360</b>	<b>6,160</b>	<b>100</b>	<b>830</b>	<b>7,090</b>	<b>12,450</b>

POPULATION BY AGE GROUP, SEX AND MOTHER LANGUAGE

APPENDIX TABLE V.

AGE GROUP	M A L E S					F E M A L E S					TOTAL BY AGE GROUP
	AMHARIC	TIGRIGNA	OTHER FOREIGN	OTHER ETHIOPIAN	TOTAL	AMHARIC	TIGRIGNA	OTHER FOREIGN	OTHER ETHIOPIAN	TOTAL	
00 - 04	-	800	-	-	800	-	820	-	-	820	1,620
05 - 09	-	900	-	-	900	-	920	-	-	920	1,820
10 - 14	20	970	-	-	990	10	1,010	-	-	1,020	2,010
15 - 19	-	610	-	-	610	-	720	-	-	720	1,330
20 - 24	-	230	-	-	230	-	380	-	-	380	610
25 - 29	-	150	-	-	150	-	420	-	-	420	570
30 - 34	-	170	-	-	170	10	590	-	-	600	770
35 - 39	10	230	-	-	240	-	540	-	-	540	780
40 - 44	10	310	-	-	320	30	500	-	-	530	850
45 - 49	20	180	10	10	220	-	250	-	-	250	470
50 - 54	-	170	-	-	170	-	370	10	-	380	550
55 - 59	10	250	-	-	260	-	100	-	-	100	360
60 - 64	-	130	10	-	140	-	200	-	-	200	340
65 & OVER	-	150	-	-	150	-	160	-	20	180	330
NOT STATED	-	10	-	-	10	-	30	-	-	30	40
<b>TOTAL</b>	<b>70</b>	<b>5,260</b>	<b>20</b>	<b>10</b>	<b>5,360</b>	<b>50</b>	<b>7,010</b>	<b>10</b>	<b>20</b>	<b>7,090</b>	<b>12,450</b>

APPENDIX TABLE VI.

## POPULATION BY AGE GROUP, SEX AND PERIOD OF RESIDENCE

AGE GROUP	M A L E S									F E M A L E S									TOTAL BY AGE GROUP
	BORN IN TOWN	LESS THAN 1 YEAR	1 YEAR	2 YEARS	3 YEARS	4 YEARS	5 YEARS	6 AND MORE YEARS	TOTAL	BORN IN TOWN	LESS THAN 1 YEAR	1 YEAR	2 YEARS	3 YEARS	4 YEARS	5 YEARS	6 AND MORE YEARS	TOTAL	
0-4	740	40	20	-	-	-	-	-	800	720	80	20	-	-	-	-	-	820	1620
5-9	740	30	30	20	-	10	20	50	900	760	50	-	10	-	30	20	50	920	1820
10-14	820	40	10	-	20	20	-	80	990	790	10	50	10	10	-	40	110	1,020	2010
15-19	500	30	-	10	10	-	-	60	610	490	100	40	10	-	10	10	60	720	1330
20-24	150	10	-	-	-	10	-	60	230	210	40	-	10	-	30	-	90	380	610
25-29	70	10	10	20	-	10	-	30	150	180	40	20	50	20	30	-	80	420	570
30-34	110	10	20	20	-	-	-	10	170	290	10	20	20	20	30	40	170	600	770
35-39	110	10	10	-	-	-	10	100	240	360	-	10	-	10	20	-	140	540	780
40-44	160	-	20	-	20	30	10	80	320	340	20	10	10	-	-	30	120	530	850
45-49	130	20	10	-	-	-	-	60	220	200	-	-	10	-	-	-	40	250	470
50-54	100	-	20	-	10	-	-	40	170	250	10	-	10	-	-	-	110	380	550
55-59	170	-	-	10	-	-	-	80	260	70	-	-	-	-	-	-	30	100	360
60-64	110	-	10	-	-	-	-	20	140	150	-	-	-	-	10	10	30	200	340
65 & Over	110	-	-	-	-	10	-	30	150	140	10	-	-	-	-	-	30	180	330
NOT STATED	10	-	-	-	-	-	-	-	10	30	-	-	-	-	-	-	-	30	40
TOTAL	4030	200	160	80	60	90	40	700	5360	4980	370	170	140	60	160	150	1060	7090	12450

WORKING POPULATION BY BROAD AGE GROUP, SEX AND OCCUPATION

APPENDIX TABLE VII.

	M A L E S			F E M A L E S			TOTAL BY OCCUPATION
	10-44	45-99	TOTAL	10-44	45-99	TOTAL	
01 TECHNICAL WORKERS	=	-	-	-	10	10	10
02 PROFESSORS & TEACHERS	70	90	160	20	-	20	180
04 NOT SPECIFIED	-	-	-	10	-	10	10
12 MANAGERS & ADMINISTRATORS (EXCEPT IN RETAIL STORES)	80	80	160	-	-	-	160
13 CLERICAL WORKERS	-	20	20	-	-	-	20
20 SALES WORKERS	60	100	160	60	70	130	290
31 FARMERS, FARMWORKERS & GRAZIERS	240	220	460	-	-	-	460
51 CHAUFFEURS, DRIVERS & DELIVERY MEN	10	10	20	-	-	-	20
54 COMMUNICATION OCCUPATION	-	10	10	-	-	-	10
61 ON METAL & METAL PRODUCTS	30	20	50	-	-	-	50
62 TEXTILES & LEATHERS	40	30	70	-	-	-	70
63 ON FABRICATING TEXTILE & LEATHER PRODUCTS	110	100	210	170	170	340	550
64 ON WOOD & WOOD PRODUCTS	10	10	20	-	-	-	20
66 OTHERS EXEPT LABOURERS	20	-	20	20	20	40	60
67 LABOURERS EXCEPT FARM MINE & SERVICE	140	50	190	90	30	120	310
70 PROTECTIVE SERVICE WORKERS	40	60	100	-	-	-	100
80 SERVICE WORKERS (EXCEPT PROTECTIVE)	150	10	160	760	190	950	1,110
90 OCCUPATIONS UNIDENTIFIABLE OR NOT REPORTED	10	40	50	-	-	-	50
TOTALS BY TOWN	1,010	850	1,860	1,130	490	1,620	3,480

SIZE OF HOUSEHOLD BY NO. OF ROOMS OCCUPIED

APPENDIX VIII.

SIZE OF HOUSE HOLD	NO. OF ROOMS OCCUPIED BY HOUSEHOLD					TOTAL BY SIZE OF HOUSEHOLD
	N/S	1	2	3	4 & Over	
01	-	500	10	-	-	510
02	10	490	50	10	10	570
03	20	600	50	-	20	690
04	-	290	40	-	-	330
05	-	310	70	20	-	400
06	-	130	70	-	-	200
07	-	100	80	20	20	220
08	-	60	50	10	10	130
09	-	20	20	20	20	80
10 & OVER	-	10	20	10	30	70
TOTAL BY TOWN	30	2,510	460	90	110	3,200

SIZE OF HOUSEHOLD BY NO. OF HOUSEHOLDS SHARING

APPENDIX TABLE IX

SIZE OF HOUSEHOLD	NUMBER OF HOUSEHOLDS SHARING					TOTAL HOUSEHOLD
	0	1	2	3	NOT STATED	
01	390	70	-	10	40	510
02	420	50	20	-	80	570
03	540	110	-	-	40	690
04	220	30	-	-	80	330
05	320	40	-	-	40	400
06	150	-	-	-	50	200
07	200	-	-	-	20	220
08	80	20	-	-	30	130
09	70	-	-	-	10	80
10 & OVER	60	10	-	-	-	70
TOTAL BY TOWN	2,450	330	20	10	390	3,200





Name of Establishment \_\_\_\_\_

P. O. Box Number \_\_\_\_\_

Telephone Number \_\_\_\_\_ What year did this establishment start? \_\_\_\_\_

Mark with an 'X' the Block which describes the business of the establishment.  
If two types mark the major one only.

A.	MARK X		MARK X
Agriculture or service to agr.		0	Retail Trade 5
Mining and Quarrying		1	Wholesale Trade 6
Manufacturing of Repair to Articles		2	Banking Insurance 7
Construction and Building		3	Transport, Storage Communications 8
Electricity and Water Supply		4	Provision of Services 9

B. If 2 marked, state main product \_\_\_\_\_  
or articles repaired \_\_\_\_\_

If 5 or 6 marked what is chief field of trade? \_\_\_\_\_

If 8 marked give field of transport \_\_\_\_\_  
or articles stored \_\_\_\_\_

or type of communication \_\_\_\_\_

If 9 marked described service \_\_\_\_\_

C. What was average number of persons engaged in 1957? \_\_\_\_\_

S E X	Owners and work- ing proprietors	Unpaid and Family workers	All paid employees
Male			
Female			

D. Has the Establishment any prime mover Yes  No   
If yes is it connected to machinery  or Generator   
Has the Establishment any electric motor Yes  No

Date: \_\_\_\_\_

Signature of Enumerator \_\_\_\_\_

Signature of Supervisor \_\_\_\_\_

If the Establishment has 10 or more employees check mark this box

ETHIOPIAN CENTRAL STATISTICAL OFFICE  
TYPE 'C' TEN PERCENT POPULATION COUNT

SERIAL No. \_\_\_\_\_  
 BLOCK No. \_\_\_\_\_  
 SECTION No. \_\_\_\_\_  
 ORDER No. \_\_\_\_\_

A.

ORDER NO.	NAME	Relationship to Head of Household	CODE	SEX		AGE	Marital Status	Nation-ality	Religion			No. of years residence in town	Occupation	CODE	Mother Tongue	CODE	*Literacy
				M 1	F 2				under 1	put 00	Eth. Orth. 1						
	1	2	3	4	5	6	7	8		9	10		11		12		
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
0																	

B.

21. CONSTRUCTION	1. Stone + Thatch	22. Water Supply	1. Piped	23. Toilet	1. Flush	24. Tenure	1. Owned
	2. Stone C. I.		2. Well		2. Pit		2. Rented
	3. Traditional + Thatch		3. Stream		3. None		3. Others
	4. Traditional + C. I.						

26. No. of sharing Households

C. To be completed for all ever married women

	Number of children born alive		Number born in last 12 months		Total children born who died under one year
	Total	Alive Nov	Total	Alive nov	

D. Deaths in the last 12 months

Name	Relationship	Sex	Age

MARITAL STATUS		*LITERACY
Single	0	No..... 0
Married	1	Read 1
Widowed	2	Read &
Divorced	3	Write 2
NATIONALITY		+ YEARS OF RES-
Ethiopian	1	IDENCE BORN
Foreign	2	in town 99

Signature of Enumerator \_\_\_\_\_

Signature of Supervisor \_\_\_\_\_

Date \_\_\_\_\_