PRELIMINARY REPORT - KENYA URBAN HOUSING NEEDS/

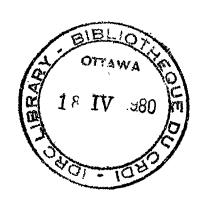
DEMAND STUDY 1978 - 2000

PREPARED FOR:

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Sarah Ibanda

30th December, 1978

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The underlying study was a rather ambitious one in that it was to analyse housing needs/demand, of each of the 105 centres that would be urban by 1980, over the next 22 years.

For housing needs such a study requires population projections which has been prepared by the Ministry of Finance and Planning. It is necessary to have knowledge of expected trends in household gige and household formation, which are very difficult to establish. Basic housing standards are required to determine exactly what can be included to the housing stock.

To obtain meaningful housing data it may be necessary to carry out a housing census first. Such an exercise if carried out independently from a population census, surely requires quite sizeable team of manpower.

With regard to incomes it is important to know the proportions spent on housing by various income groups and social groups. To this there is hardly any shortcut, apart from carrying out a household survey.

After looking through the documentary data relevant to the study, a questionnaire was developed which was to complement the documentary data. This questionnaire, however, also has its limitations. Although it has been tried to simplify the questionnaire as far as possible, it was found during the pre-testing stage that it would not be possible to carry out the exercise in all the 105 centres through a personal interview. A sample survey has therefore been proposed.

It was found that the Logal Authorities have not much of housing records from where to get the answers for the questionnaire. In fact some of them would actually have to make special housing surveys in their centres.

This report will therefore only provide some overall data and statistics on housing need and demand. It is however hoped that through the framework of these study and the questionnaire developed therein, further insight and more detailed information on this pressing problem of housing millions of people in a smooth and satisfactory way can be found.

Housing need and demand is not a static problem but a problem which requires a continuous review and so provide policy makers guidelines for their decisions to improve upon the welfare and well being of the population.

Nairobi December 1978

G.J. Verbeek

1. INTRODUCTION:

1.1. Purpose of the Study:

This study was to analyse dwelling shortages and future housing requirements (in terms of housing needs) in relation to the future building rates that should have to be maintained for the building programme. The knowledge, of the volume and structure of long-term needs approximate as they may be, is a very useful main source of information for long-term housing policies especially when considering social welfare as regards to housing. The same information can be used in making long-term strategies in the building industry and also for macro-economic considerations, such as employment, production, investment and consumption (expenditure).

Estimated housing needs when considered in relation to available resources, provide an indication of the proportion of the needs that can be met within the Programme/Plan Period. On the other hand housing need/demand study may help the would-be investors in housing to decide on where to locate their projects. It is the housing demand estimates that have the decisive role in working out the general principles of housing policy and in elaborating Housing Programmes, due to the fact that it shows the extent to which households in need of housing may be in a position to pay for improved housing. It is also through the housing demand analysis, that programmes which are to be financially self-supporting are determined.

1.2. Role of Housing in the Kenya Economy:

Housing is a basic need especially for, shelter against the weather elements, healthy environment and security when looked at as a welfare good. When looked at as an industry, housing has a major role to play in the national economy. The importance of housing in the economy can be evaluated in terms of employment, production, investment and consumer expenditure.

In Kenya construction employs directly about 5% of the total wage employees in the country. It has been estimated that each K£.1 million spent on construction in the formal sector generates one year's employment for about 680 men, both skilled and unskilled. New residential building including traditional sector takes about 60% of all the funds invested in building and about 17% of the total capital formation. On the other hand building and construction contribute about 6% to the Gross domestic product.

For most households in Kenya rent consumes from 8% to 40% (25) of the household income. Housing expenditure is one of the largest single item that consumers spend on regularly. On the other hand housing is a source of income especially when let or sublet and a place of business for many of the poorer households.

What is mentioned above are the direct effects of housing in the economy, but housing can bring several multiplier effects, especially when it generates demand for other types of construction and services, roads and public utilities being the most important. Economic activity is still generated in the furniture producing industry and those producing other house equipment.

1.3. HOUSING NEED AND DEMAND DEFINED:

(21)

According to the U.N. manual on methods of estimating Housing Needs, housing is used in a social sense to express the extent to which housing conditions fall below the levels or norms considered necessary for health, privacy and the development of normal family living conditions. In fact it is a measure of Housing Deficit which is the difference between total households and the number of dwellings deemed habitable. It is expressed in terms of standards which are set arbitrarily and have nothing to do with people's aspirations but give some indication of the numerical size of the housing problem. Assuming that the established norms are to be maintained for the future, then future housing needs resulting from new household formation and decline in the housing stock must be considered. Experience has shown that estimates of normative housing needs often become obsolete due to constant economic and social changes.

For purposes of this study the needs are not measured in terms of conventional dwellings as is suggested by the United Nations, because doing so would imply that hardly anybody in the rural areasof Kenya of in the urban squatter/slum areas is housed. In this study the standards will be implicitespecially when overcrowding, involuntary doubling, homelessness and unfit dwellings are referred to.

Housing demand is the willingness and ability to pay for housing.

It depends mainly on the households income and the prices at which housing is made available. Affordable rent determines the value of accommodation that a household can afford. This does not always stand especially when there is subsidized housing and rent controlled housing and people can afford higher standard housing. Housing need

and housing demand complement each other in that once housing needs are identified they can be formulated in terms of effective demand. On the other hand knowing housing demand helps to establish norms for housing needs. Both housing demand and need have specific functions and their role depends much on the housing stystem and the situation in each country. In mixed economies, housing demand is used to make comparisons with the housing needs for use by the public authorities responsible for housing policy.

1.4. GEOGRAPHICAL COVERAGE:

All centres which will be urban by the year 1980 are included. Urban here refers to settlements which will be of 2000 inhabitants. All together there are 105 centres comprising of two settlements of 959,000 and 405,000 inhabitants respectively, nine principal towns and eighty four urban centres and ten rural centres. The principal towns are 'major growth centres' in development potential areas intended to encourage regional growth. These principal towns are leading centres of urban and industrial growth, given their strategic location relative to existing or potential population distribution, resource development transportation attaches attaches are principal towns and increasing employment opportunities, it is hoped that more alternatives will be open for the absorption of the migrant population and hence lessening the problem of excessive concentration in Nairobi and Mombasa.

Urban centres, as defined in this study, fall within the Service Centre Strategy which aims at distributing basic services such as water supply, health services and education in an equitable and economic manner over the whole country. The service centres are designated in hierarchy depending on the population it is supposed to serve. Principal towns and urban centres are aimed at residential settlements of 100,000 and 5,000 respectively. The regional distribution of all the urban settlements as in 1980 is as follows (see table below):-

1.4.1. - Regional Distribution of Urban Settlements:

| Province | Number of | Pepulation | | |
|---------------|-----------|------------------|-----------------|-------|
| | Centres | Total Number (1) | of which U | |
| | | | Number | Perc. |
| Nairobi | . l | 1,098,400 | 1,098,400 | 100 |
| Central | 20 | 2,377,000 | 143,400 | 6 |
| Coast | 10 | 1,372,000 | 511,000 | 39 |
| Eastern | 19 | 2,650,000 | 103,000 | 3•9 |
| North Eastern | 3 | 276,000 | 4,900 | 2 |
| Nyanza | 12 | 3,175,000 | 164,300 | 5•2 |
| Rift Valley | 29 | 3,113,000 | 296,000 | 9•5 |
| Western | 11 | 2,011,000 | 62 , 300 | 3.8 |
| Total | 105 | 16,092,400 | 2,384,400 | 14.8 |

- (26) (1) From Kenya statistical Digest Sept. 1972 Vol.X Fo.3.
- (23) (2) From Urban population projections 1969-2000.

1.5. STANDARDS:

The concept of standard refers to actual situations, stated future goals and various planning regulations. For example what is standard in rural area may be substandard in an urban area.

In its guidelines (27) for an Administrative procedure for sites and service schemes, the National Housing Corporation came out with what is considered as minimum acceptable standard for both infrastructure and the superstructure. This minimum standard consists of two rooms, water closet, shower and kitchen. It allows for the psecoff sami
permanent materials but with an ultimate aim of constructing a permanent structure. This is the standard house when using government funds.

According to Local Government (Grade II Building) order 1968, (28) by-law 10(2), it is stated that every dwelling with two or more habitable rooms, shall have one habitable room! With a superficial floor area of 11 m² and that a habitable room should not be less than and that each person should have a minimum floor area of 3.5 m². If these standards are to be applied to the above minimal acceptable house by the government, the minimal habitable area that this structure can have is 18m^2 which when divided by the area per person can at the miximum accommodate five persons.

...../5.

The government standard of the minimal acceptable house is not incorporated in the building regulations, hence it is just a guide for planning purposes. In a way, this standard gives a guide to the type of conventional dwelling that is aimed at. It should be realized that some households are bigger than others. For example whereas the 2-roomed house can accommodate household of

five opeople, it will not suffice a household of eight people without overcrowding. On the other hand the 2-roomed house may be big for some single person who may just need a single room.

In, this study, there are no set-up standards. All types of housing are considered and standards are only implied where necessary. Of course, it is common knowledge to all those concerned with housing in this country that a big part of the present housing stock is far from the standard Conventional 2-roomed permanent house. For this reason a housing unit (interchangable with dwelling) is considered as the aggregate of rooms designed for the accommodation of a household.

1.6. Household Size:

The term household has several definitions, among which are the household-dwelling concept which defines household as the number of persons occupying one housing unit, the housekeeping units and the nucleus family. For the last two censuses, the household was defined as a group of people living together, whether or not they occupied the whole of a house, sharing the principal meals. The Central Bureau of Statistics is now using the term household to refer to a person or group of persons generally bound by ties of kinship, who normally reside together under a single roof or several roofs within a single compound, and who share a community of life in that they are answerable to the same head and have a common source of food. In this study the term household is to refer to a person or group of people, related or not, living and sharing the principal meals. The household, may be using the whole house or just part of it.

A household is the basic unit for determining the number of housing units required. The definition used determines the magnititude of the housing needs. On the other hand if the average household size is reducing and population is increasing, there would be more housing units required, whereas if household size was increasing, less housing units would be required. When analy-

sing needs, a bigger household would require a bigger housing unit than that required by a smaller household.

In 1962, the average household size was 6.25 for the whole country and in 1969 it had reduced to 5.26 while that for the urban centres was 4.18. On the whole, it can be seen that there is a declining trend in the average household size. And for this reason, the average, household size to be used in this study is to be fixed at 4, although the average household size varies for individual urban centres, no account is taken of structural changes in age and marital status of the population.

On the chart 1.6.1, the relationship between population and the household size required is clearly illustrated (30).

2. HISTORY AND DEVELOPMENT OF URBAN HOUSING IN KENYA:

2.1. Housing Development after Independence.

It was in the post independence period that elaborate national planning began. During the same period the Government was determined to find solutions to its urban housing shortage. It was the urban housing pressure that prompted the Government to invite the United Nations experts to make a study of short and long-term housing needs, and to make recommendations on housing policies within the framework of Social and Economic Development Planning. The result was the Bloomberg-Abrams Report published in May, 1965(2).

Among the recommendations made were:-

- (1) The establishment of a National Housing Authority with more power than the then Central Housing Board in the Ministry of Housing.
- (2) To co-ordinate and initiate development by the local authorities.

In 1960, the Ministry of Housing was created, a very big step forward by the government showing its determination to tackle housing problems.

In 1955/66 Sessional Paper No.5 (5), it is stated that Government's Urban Housing Policy would be to organize, in collaboration with local authorities, a programme which seeks to develop housing projects which will provide essential housing and a healthy environment to the urban dweller at the lowest possible cost to the occupants.

The National Housing Corporation, which replaced the former Central Housing Board was established in 1967.(29), as a response to the United Nations Report by Bloomberg and Abrams. Unlike the former Central Housing Board which could only make loans to local authorities the National Housing Corporation had new powers to make loans to individuals and to initiate and build its own projects. The overall function of the National Housing Corporation is to act as an executive arm of the Ministry of Housing and Social Services and ensure that housing policy is implemented. It represents government interests in matters related to practical and technical details of project implementation, while the Ministry concerns itself with broader issues.

After issuing Scssional Paper Bumber 5 on housing policy, the government was set on solving the housing problems. The establishment of the Housing Research and Development Unit (HRDU), to compile background information for housing development, the Housing Finance Company of Kenya (HFCK) to help in financing of Housing, and the Rent Restriction Department to help in controlling rents were all efforts aimed at easing the implementation of Housing Policy.

2.2. DEVELOPMENT PLANS AND URBAN HOUSING 1956-1983;

2.2.1. 1966-70 Development Plan.

The 1966-70 Development Plan envisaged seven categories of Housing and most of these were concerned with urban Housing. There were no priorities spelt out. Low-Income urban housing was to be dealt with through the rental and home ownership schemes. Although the government was aware of the financial limitations of the low-income group, it discouraged any form of direct subsidy. Instead the government found the sites and service schemes as a practical approach, whereby the government surveys and prepares building sites; and provides roads, water, security lighting, sewage disposal and garbage removal. On these serviced plots the tenants can then build their own houses.

2.2.2. - 1970-74- Development Plan.

The 1970-74 Development Plan stressed the government's Housing Folicy prime objective as the move towards a situation where every family in Kenya will live in a decent home, whether privately built or state sponsored, which provides at least the basic standards of health, privacy and security.

In this Development Plan, the main aim was to increase the housing stock and this was to be done through various programmes namely:-

- (1) Loans to Municipalities and other local authorities.
- (2) Direct construction of housing where local authorities cannot undertake it.
- (3) Pilot schemes in rural areas in connection with the Special Rural Development Project (SRDP), and in urban areas.
- (4) Participation in the financing of private housing by business enterprises and by individuals.
- (5) Assistance to companies who undertake employee housing projects.

- (6) Financial and technical aid to housing schemes in settlement.
- (7) Improvement of housing design, with emphasis on the use of local materials.
- (8) Research into housing markets and the constraints of supply especially in finance, the contracting and building industry and in building codes.

In 1968 it was estimated that over four fifth of the urban effective demand was for dwellings costing K£.1,200 and below. During the 1970-74 Development plan a ceiling of K£.1,200 was put on the cost of houses which were to be financed through the Development Funds. Assumptions taken in arriving at the figure of K£.1,200, were that a household can afford a home costing $2\frac{1}{2}$ times its annual income or pay a rental of about 25% of its monthly income.

The households covered under the cost ceiling of K£.1,200 were those earning less than K£.480 per annum paying a monthly rent not exceeding KShs. 200/=.

The houses costing more than K£.1,200 were to be catered for by the H.F.C.K. and the private sector.

2.2.2.1. - Housing Programme 1970-74:

The total investment in housing, both public and private was estimated at about K£.53 million. The government intended to spend K£.27million on housing representing over 13% of government's total spending for development during the plan period. K£. Of the 27 m. the Ministry of Housing was allocated K£.14.9 m., the remainder was allocated to the various Ministries for institutional housing. Of the Ministry of Housing's development fund 85% was planned for urban areas and a third of the urban housing fund was set aside for the site and services programme.

2.2.3.- 1974-78 - DEVELOPMENT PLAN:

High priority was placed on the rapid improvement of housing standards in the country. Due to the limitations of resources, government was to concentrate mainly on the urban Housing problems. The policy as laid down in the previous development plan was to be continued in more or less the same way.

2.2.3.1 - HOUSING PROGRAMME 1974-78:

Government allocated K£.34.5 m. through the Ministry of Housing and Social Services and K£.8.8m. on institutional Housing making a total of K£.43.3 million, an increase of 60% in current prices, over that of the last plan period. Urban Housing requirements 1974-78 were estimated at 110,000 housing units plus an accumulated 50,000 housing units making a total of 160,000. If the housing requirements for 1974-78 had to be fulfilled, then production had to be at a level of 40,000 housing units per annum. The estimated total cost for the 160,000 units was approximately K£.130 million, of which only K£.81 million was planned for. The rest was to be met through loans from the commercial banks, Housing Cooperatives, World Bank and other external institutions. For first time the Ministry had carried out a housing needs-study 1973-78 that has acted as guidelines. (18)

2.2.3.2. HOUSING OBJECTIVES FOR 1974-78:

Most of the objectives are the same as those of the 1970-74 Development Plan, except for a few additions namely:-

- (1) To ensure that Housing Design and Construction Conform to Government standards and that each housing unit constructed in urban areas shall have at least 2 rooms plus its own kitchen, water closet and shower.
- (?) To ensure that (a) No additional unauthorized housing settlements are erected, (b) Slums are removed when satisfactory alternative housing has been found, &(c) Sub-standard urban housing is improved.

2.2.4. - 1979-83 DEVELOPMENT PLAN:

Emphasis is put on the improvement of the housing situation, especially Squatter upgrading and provision of Sites and Services just as in the last plan period. Besides this, the government is to concentrate on the problems of low-income urban population. Again the government is to devote most of its resources to the low-cost housing, although it will try to stimulate the middle cost and high cost housing through the provision of serviced land, technical information and the promotion of financial institutions.

2.2.4.1. - HOUSING PROGRAMME 1979-83:-

The Winistry has been allocated K£.57.2 million, an increase of 66%. And of these funds K£.37.6 is to be used in the 3δ urban

centres that have been selected as economically viable for a minimum project. The rest of the funds are to be used for Pool Housing and Mortgage Housing.

2.2.4.2.- HOUSING OBJECTIVES FOR 1979-83:

The policies and objectives are not different from those of the previous development plans.

3. A METHODOLOGY FOR ESTIMATING HOUSING NELD AND DEMAND IN THE URBAN KENYAN CONTEXT.

3.1. Housing Needs.

Housing Need Studies are carried out to analyse the existing dwelling shortages and the future housing requirements. This enables Planners and Policy-makers to set targets on the future building rates and to have an idea about the magnititude of the need for the different social economic groups in the Society. Given the need for housing the policy-maker compares this with what is affordable, considering the available resources for housing and the magnititude of the need, inorder to come out with the most rational decisions on the housing policy.

The method proposed here is to work out the housing needs first. The second step would be to convert the needs into demand.

Housing Needs: - Lousing needs consist of Lcoumulated and future housing requirements.

Accumulated Meeds: These comprise of those people who are homeless, unvoluntary doubling, overcrowding and staying in unfit dwellings.

Homelessness: This refers to people who have no particular place of abode to retire to after their days activities.

Involuntary doubling: - Here there is an implication of privacy standards. The only people to include are those doubling up through forced circumstances usually caused by shortages, and would like having their own accommodation.

Overcrowding: The only way to ascertain overcrowding is to measure it against the set norms. In the building Bye-Laws there are set standards of space per person and these can be used to measure the extent to which overcrowding is taking place.

<u>Unfit Dwellings:</u> This is an expression used to refer to standards of health or fixtures and fittings as set out in the Building Code.

So far, there are no reliable statistics on Homelessness, unvoluntary doubling, overcrowding and unfit dwellings. This requires housing surveys to be carried out in the particular location or centre whose housing need is being worked out. The exercise is bound to be costly, very time consuming and requires a lot of skilled manpower in housing surveys.

The above method would be most appropriate for accuracy, but for quicker estimate of an accumulated housing shortage, the comparison of the housing stock and the number of households will suffice. This is quantitative housing shortage estimate.

Already the Ministry of Housing and Social Services has compiled statistics on public and semi-public housing stock (24) for all local authorities. If the number of households catered for by public and semi-public housing could be ascertained, then the rest could be assumed to be catered for by private housing.

If the total public and semi-public housing stock plus the private housing stock tally with the estimate number of households, then there is no housing shortage. Should the total housing stock fall short of the estimated number of households then the differences between the two is the housing shortage. Data and statistics on the existing housing stock is very scarce and it is for this reason that questions on the housing stock have been incorporated in the housing questionnaire that has been developed.

3.2. FUTURE HOUSING REQUIREMENTS:

The future housing needs are the requirements which involve demographic changes. In Kenya's case future housing requirements are meant to cater for households that are formed as a result of future household formations due to marriage or separation from other households or immigration.

For Kenya, the estimate of future households, can be worked out by means of the <u>headship rate method</u> which uses the existing structure of population and the expected future population structure through sex, age and marital status. Here economic and social developments are basic to the projections. Besides demographic changes, future housing requirements involve replacement due to demolition (for catastrophes or overriding reasons) and depreciation. The rate of replacement has to be determined given the building materials used for the housing stock.

3.3. HOUSING MARKET MODEL:

It is very difficult to understand housing demand without knowing how the housing market operates. The demand for housing is influenced by the supply. The most appropriate approach for analysing the housing market is through a model which incorporates all the factors of supply and demand (see Diagram attached).

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This model uses the Mobility Approach which uses forecast flows of households formed and those which move. It is these households that generate the demand for housing and hence call for the supply of housing. Use of this model would require occupants inquiries to be carried out. These inquiries will help to find out if what is supplied, is what is demanded. Some of the questions in an occupants inquiry would include the following:-

- (1) Age of occupants
- (2) Household structure
- (3) Profession and Occupation.
- (4) Place of Work (distance)
- (5) Type of present occommodation (in terms of rooms and rent)
- (6) Tenure mortgage, Rental or Tenant Purchase
- (7) Duration of stay in present accommodation.
- (8) Where have the occupants lived before:
- (9) Type of accommodation they would like to have (as in 5).
- (10) How much the occupants are willing to pay for better/
 new accommodation?
- (11) Are the occupants satisfied with their present accommodation?.

Analysing waiting lists of housing agents, government pool housing and that of local authorities can give substantial information on the demand for housing especially for the potential movers.

3.3.1. - NOTES ON THE HOUSING MARKET FODEL:

To understand this Housing Market Model, one has to think of the housing demand as being created by households (who are the consumers) and the housing supply (goods) as the dwellings that are available to meet the existing housing demand. For this housing market model the factors that constitute demand are:-

1. New Households.

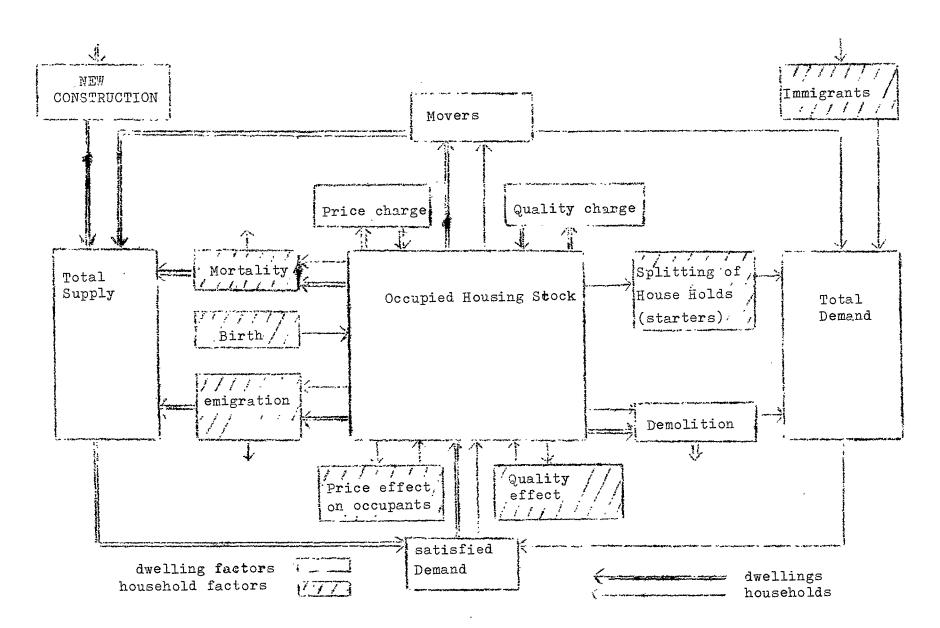
These new households are usually formed out of an existing household and can be starters (when young people come of age and decide to live on their own or get married). In most cases marriage is an determining factor for household formation. On the other hand households are split through divorce.

- 2. <u>Mamigrants</u>: These are households that come from outside and come to stay in a new location. They have no house left behind, like starters, in that particular location.
- 3. Movers: These are households that move from one house to another/16.

within the same location. The reasons for wanting to change accommodation can be due to changes in the price of present accommodation. For example if the price for present accommodation rises, then those people who cannot afford, vacate their dwellings and look for cheaper ones. On the other hand those households who can contain the price change and are interested in the vacated dwellings are free to have the houses left behind. Besides house—holds are bound to change their needs and standards (in the diagram this is referred to as quality change). These movers households have dwellings left behind which can be added to the housing supply, while at the same they create additional demand for housing. Robility in the housing market is reduced in situations where there is a housing shortage and rent central policy. Some—times households have to move because of eviction from present accommodation or in order to move hearer to job opportunities.

Factors that constitute supply are:-

- (1) mortality- houses that are vacated through households being disolved by death. This would be true if the head of the household who has been the bread earner, and when the household has been occupying rental premises. If the household is living in its own paid up house, then the remainder of the household can still use that dwelling. In fact death may not always result in additional vacant houses.
- (2) Emigration This would involve houses that are left behind by people who transfer from one place to another.
 - (3) Movers Households that move within the same locality, tend to live behind houses that are added to the housing supply.
 - (4) New Houses Constructed All the new houses completed are usually an addition to the housing supply.



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3.4. URBAN HOUSING DEMAND:

Given the available data, the limitations on the ranpower and financial resources in the Ministry, it is not feaspable at present to tackle Housing Demand using the mobility approach as spelled out before, therefore a simplified method that looks at households incomes distribution, proportion of income spent on housing in comparison to dwelling costs in order to find out households affordability of housing will be sufficient for the time being. Below is the method which could be applied for analysing housing demand for the 105 Local Authorities under consideration.

Household Size:

The household size is a basic item for determining the number of housing units required. It is from the total number of households required that estimates of effective demand for the different income groups can be made. The average household sizes used are those obtained from the 1969 census. It is most likely that the household sizes for the various centres have changed over time. Depending on what trend the population growth has taken, household sizes could have increased or decreased. Higher population growth is usually associated with bigger households and the reverse is assumed for the low population growth. The 1979 population census will determine the actual trend of household size; but those data will be available in 1980 at the earliest. For further analysis it is assumed that the average household sizes remain fixed for the period under consideration.

Average Income Distribution:

The income distribution referred to is that of the wage employees in 1975, which is the latest available information. The proportion of wage employees to that of total labour force for the last five years in the whole country does not exceed 20%. Even the number of those in wage employment usually falls short of the total number of households. In reality every household (especially urban) has a source of income, whether it is from the modern or informal sector, where most of the urban dwellers especially the low-income earners are employed or self-employed. On the other hand it is not very easy to convert average income distribution of wage earners into household incomes, because to do so involves making a number of intuitive assumptions. For the purpose of this study, it is assumed that the income distribution will remain

fixed, for the period under consideration.

Housing Standards:

Housing standards determine the monthly cost for accommodation.

Unserviced accommodation constructed of temporary materials in a high density low environmental surrounding will have a lower price than the same but near locations of employment and higher environmental surroudings. The same is valid for houses build of permanent materials in a well planned estate. The dimensions of the house, the rooms and the facilities available, the finishes, the fire-resistance all contribute to the standards and hence the price of the accommodation. For the purpose of this study, however, it is assumed that standards as laid down in the Building Code and in the National Development Plan, are constant. It is likely that if certain standards could be lowered then probably more houses could be constructed from the same Development Funds and more people would be in a position to afford housing. (refer to paragraph 1.5.)

Government Policy:

The Government policy here refers to housing and the economy as a whole. For example if Government policy was to give a housing subsidy to a certain income group, the affordability for these people will change. This is true in the case of some civil servants who stay in government allocated quarters whose market value is much more than what they pay. Supposing these people were told to pay the market value for the samequarters, it is most likely that their affordability of housing will change. On the other hand government policy on taxation and imports is bound to have direct and indirect effects on the affordability for housing for various income groups. The last development plans have more or less had continuity Government Housing Policy, it is expected that no major changes will take place.

Given the above limitations in average household size, average income distribution, standards and government policy, the study attempts to look further at:-

- 1. Population growth.
- 2. Employment.
- 3. Proportion of Income spent on housing.

Population Growth: (See chapter 4 for further details)

The study is to look at demand for housing using low and high population projection.

Employment: (See chapter 5 for further details).

The following assumptions are made on employment:-

- 1. All heads of households are employed.
- 2. The number of household heads receiving an income, is equal to the number of those in wage employment.

Proportion of income spent on housing:

It has been found from empirical studies that the proportion of income spent on housing varies when income changes. It can vary from a low 8% to as high as 40%. It has also been found that within each income category there is a certain variation around the average percentage spent on housing. This variation is greatest for low-income families and the smallest for high income earners. Besides housing there are other primary basic needs which have to be catered for, such as food and clothing.

The actual proportion of income spent on housing for urban Kenya has not been established. When planning schemes for households of different income groups the Ministry uses not more than 20% of the monthly income as expenditure on housing. This study will look into three variations, 15%, 20% and 25% of income spent on housing and its effect on the demand.

The final results will indicate the effects on the affordability for housing when the low population projection is used, assuming that all households are employed and when different proportions of income (i.e. 15%,20% and 25% are spent on housing).

The same exercise will be done for the high population projection, assuming that the number of employed households is equivalent to those in wage employment and using the different proportions of income (15%, 20% and 25% spend on housing).

Coverage:

The urban population which this study intends to cover is spread over 105 centres as explained in paragraph 1.4. There are about 2 million people in all these settlements at present. Since the study is concerned with assessing housing demand, population distribution is a major determining factor. The centres have been

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distributed according to their population density into five categories i.e.: - (See table 3.4.1.)

- (a) 2,000-5,000 67
- (b) 5,000-10,000 18
- (c) 10,000-50,000 16
- (d) 50,000-100,000 1
- (e)100,000 and over- 3

Total No. of Centres105

It is considered that analysis of all the 105 centres would not necessarily provide better results than a properly selected representative sample of the five categories. For purposes of this study it is considered that all centres with over 50,000 (category 'd' and 'e') people be included. These settlements have been selected because they are considered major towns in the country and cobine the most important urbanizing roles in the country i.e. Administrative, industrial and location on major transport network. It is in these centres where employment opportunities are most favourable and hence the big pull of migrants to these centres. The rest of the centres, in categories - a, b and c were listed according to their population sizes and one centre was picked randomly at every fifteenth count. In the end one centre was selected in each category of b and c, whereas few centres came from category a.

Below is a list of the centres that have been selected:-

| Cei | ntré | Po | pulation (1980 | <u>)</u> . |
|-----|---------------|-------|----------------|------------|
| 1. | Nairobi | | 1,098,400 | |
| 2. | Mombasa | | 446,600 | |
| 3. | Kisumu | | 124,000 | |
| 4. | Nakuru | | , 79,800 | |
| 5• | Kericho | | 19,400 | |
| 6. | Lamu | | 9,200 | |
| 7. | Eldama-Ravine | | 4,100 | |
| 8. | Kiganjo | | 2,500 | |
| 9• | Kendu-Bay | | 2,000 | |
| 10. | Butere | | 2,000 | |
| | | Total | 1,788,000 | |
| | | | | |

This accounts for about 90% of all the total urban population in 1980.

3.4.1. - Distribution of Centres by Province and Size of Town:

| Province | 2,000 - 5,000(a) | 5,000 - 10,000(b) | 10,000 - 50,000(c) | 50,000 - -100,000(d) | 100,000 and over(e) | Total |
|----------------------|---|----------------------|--|-------------------------|---|-------|
| Nairobi | ette ale antiliarite produce painte de seas seus seus | | | <u></u> | 1 : | 1 |
| Central | 15 | 2 | 3 | - | para I | 20 |
| Coast | 5 | 3 | 1 | 0 | 1 | 10 |
| Eastern | 12 | 2 | 5 | | haqaana saanaana bilari iyo ah ah shi ka saasaa | 19 |
| N. Lastern | 3 | - | argumenten ind som i för dett fragsverklichten. Som | | | 3 |
| Nyanza | 9 | 1 | 1 | 0 | 1 | 12 |
| R. Valley | 16 | 7 | 5 | 1 | 1 1 1 | 29 |
| Western | 7 | 3 . | 1 | | north C | 11 |
| Total | 67 | 18 | 16 | 1 | 3 | 105 |
| Number in Sample. | 4 | 1 | 1 | 1 | 3 | 10 |

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3.5. - HOUSING FINANCE: 33:1

The attached chart, shows the income groups distribution for the major towns as given by the C.B.S., and their affordable capital cost of housing for the most common housing schemes. Taken into account are the prevailing interest rates, administrative fees, cost of land and bad debts. Besides it is assumed that income distribution of wage earners is representative of household incomes and that households do not spend over 20% of their monthly incomes.

The calculations for capital costs for the various schemes are based on:-

1. Site and Service Scheme:

This applies to where the land is serviced with roads, water, sewage and at times even a wet core (i.e. kitchen, w.c. and sometimes one or two rooms provided depending on one's income and the type of scheme).

| Capital - | KShs. | 1,000,00 |
|--|-----------|-------------------------|
| Deposit - | 11 | <u>50∙</u> 00 |
| Loan - | 11 | 950 , 0 c |
| N.H.C. gives loan over period of 20 years at 6.5%. | | |
| Annuity 950x.0907564 | ŧŧ | 86.22 |
| Maintenance 2% of the capital cost | 11 | 20.00 |
| Insurance 0.25% of the capital costs | 11 | 2.50 |
| Land rent 3% of land value (10% is assumed value of land). | 11 | 3.00 |
| Annual payments | tt | 111.72 |
| Administration 7.5% | | |
| Bad debts 5.0% | | |
| 12.5% of the Annual Payment | s " | 13.97 |
| Rates - 5% of unimproved site value (roughly 0.4 of capital cost). | 11 | 4.00 |
| Total Annual Payments. | | 129.69 |
| Annual Repayments as % of Total Costs - 129.69: 1000x100 = | | 13% |

| 2. | Rental Youse: | | |
|----|--|------------|----------|
| | Capital Cost | KShs. | 1,000.00 |
| | Loan | 11 | 1,000.00 |
| | N.H.C. gives loan over period of | | |
| | 40 years at 6.5% to local authorities. Annuity 1000x0.07069373 | .i tt | 70.69 |
| | Maintenance 2% of capital cost. | 11 | 20.00 |
| | Insurance 0.25% of capital cost | , tt | 2.50 |
| | Land rent 5% of land value | 11 | 5.00 |
| | Annual Payments. | KShs. | 98.19 |
| | Administration 7.5% | | |
| | Bad debts 5.0% | | |
| | 12.5 of Annual Payments | <i>, ,</i> | 12.22 |
| | Rate - 5% of unimproved site value (roughly 0.4% of capital cost) | | 4.00 |
| | Total Annual payments. | KShs. | 114.46 |
| | Annual Repayment as capital cost 114.46: 1000x100 = | | 11.4% |
| 3. | Mortgage House: | | |
| | Capital cost | KShs. | 1,000.00 |
| | 10% Downpayment | 11 | 100.00 |
| | Loan | 11 | 900.00 |
| | The H.F.C.K. gives loan over period of 15 years at interest rate of 9.5% for owner occupiers | | |
| | Annuity 900x0.127733 | tt | 114.96 |
| | Maintenance 2% of capital cost | 17 | 20.00 |
| | Insurance 3% of capital cost | ŧŧ | 3.00 |
| | Land rent 4% of Land Value (assumed Land value is 10% of capital va | u lue) | 4.00 |
| | Rates 5% of unimproved site value (roughly 0.4% of capital value). | 11 | 4.00 |
| | Total Annual Payments | KShs. | 145.96 |
| | Annual Repayment as % of Capital cost (145.96: 1000x100) = Rour | ıded | 14.5% |

Affordable capital cost, for the three different schemes that is Site and Service, Rental and Mortgage, is obtained by this equation.

CXR. where it is Annual Housing Expenditure C is the affordable capital cost and R is the annual repayment.

In the 1976-77 period the site and service plots were costing between KSh.8,000-20,000. During the same period rental houses (2-mooms, Kitchen, shower and w.c.) were costing from KSh.34,000 and over whereas Mortgage houses were costing from KSh.50,000 and above.

... ' 25.

IT COME GROUPS 1976, AFFORDABLE MOTTHLY EXPENDITURE AND CAPITAL COST - MAJOR TOWNS.

| forthly Income | % of Total | Cum. % of | monthly Hou | | CAPITA | | n Kes. |
|------------------------------|--------------|--------------|-------------------------|--------------|------------------------|----------------|-------------------------------------|
| in KSh. | wage earners | wage earners | Expenditure 20% of Inco | | x Site & Annual ment = | | Fortgage Annual Repay- ment = 14.5% |
| Under 150 | 1.5 | • | < 30 | < 4500 | ₹ 3000 | ≰ 3000. | ₹ 2000 |
| 150-199 | 4.5 | 6 | 30-40 | 4500-6000 | 3000-4000 | 3000-4000 . | 2000–3000 |
| 200-359 | 21.9 | 27.9 | 40.80 | 6000-12000 | 4000-7000 | 4000-8000 | 3000-7000 |
| 400-599 | 24 | 51.9 | წ0-120 | 12000-18000 | 7000-11900 | წ000-12000 | 7000-10000 |
| 600 - 7 99 | 11.3 | 63.2 | 120-160 | 18000-24000 | 11000-14000 | 12000-17000 | 10000-13000 |
| 600-999 | 9.6 | 72,8 | 160-200 | 24000-30000 | 14000-18000 | 17000-21000 | 13000-17000 |
| 1000–1499 | 10.2 | 83 | 200-300 | 30000-45000 | 18000-28000 | 21000-31000 | 17000-25000 |
| 1500-1999 | 5.5 | 88.5 | 300-400 | 45000-60000 | 28.000-37000 | 31000-42000 | 25000 <i>–</i> 33000 |
| 2000–2599 | 5•3 | 93.8 | 400-600 | 60000-90000 | 37000-55000 | 42000-63000 | 33000-50000 |
| 3000-5999 | 4•5 | 98.3 | 600-1200 | 90000-180000 | 55000-110000 | 53000-125000 | 50000-99000 |
| 6000-and over | 1.7 100 | 100 | 1200 & ove | r180000&over | 110000&over | 125000& over | 99000 and over |

Figures on Capital Cost rounded to the nearest 1000.

3.6. LOCAL AUTHORITY HOUSING QUESTIONNAIRE

There is, if any, very scarce data on housing need/demand for Kenya. Apart from the big centres like Nairobi, Mombasa, Nakuru, Kisumu and Thika, the rest of the country lacks documented data and statistics that can be used as a base for any housing study. The Ministry of Housing and Social Services had made an attempt at compiling public and semi-public housing stock as at 31st December, 1975. A questionnaire has been developed which is intended to update the public/semi-public housing stock and at the same time collect statistics for private housing in all the 105 centres under consideration. For proper housing need study, it is essential that existing housing conditions and occupancy rates are established in order to find out the exact magnitude of the housing deficit. As for housing demand it is not just enough to know the income distribution of a centre, because this says nothing of the different household sizes, type of accommodation sought for, and exactly how much households are willing to spend on housing. In short the questionnaire was intended to fill the gap that existed between available statistics/data and that which could be used to come out with meaningful estimates of housing need/demand, for the present and the future.

| 3.6.1 | HOUSING QUESTIONNAIRE: |
|--|---|
| Name of the Council: | |
| Name of the Centre: | |
| Location Code: | ••••••••••••••• |
| Physical Planning Sta | tus: |
| Administrative Status | : , , , , , , , , , , , , , , , , , , , |
| Address / | *************************************** |
| *************************************** | |
| ************* | |
| ****** | |
| Mate forwarded: | |
| Date Returned: | |
| APPLICATION FORM FOR | HOUSING AND RESIDENTIAL PLOTS |
| 1. Do you have standa | rd application form for:- |
| (a) Council Hou Íf yes plea | sing Schemes? |
| _ | /Business cum residential plots? |
| If yes plea | se attach. |
| WAITING LIST FOR COUN | CIL HOUSES:- |
| 2. Do you have a wait and site and service | ing list for Rental, Tenat-Purchase, Mortgage housing e plots |
| people presently on w | ting list what does it indicate to you(in terms of aiting list, their income, maximum/average time on aling with people on list and any other |
| *************************************** | *************************************** |
| ••••••• | |
| •••••• | *************************************** |
| **************** | |
| | ~ · · · · · · · · · · · · · · · · · · · |
| | • • • • • • • • • • • • • • • • • • • |
| * | |
| ************** | |

| 2b If you have a waiting list, from when did this start? | | | | | | | |
|--|--|--|--|--|--|--|--|
| •••••••••••••••• | | | | | | | |
| ••••••••••••••••• | | | | | | | |
| RENTAL ACCOMMODATION: | | | | | | | |
| 3. How many rental housing units had your council in | | | | | | | |
| township as at 31st December, 1977? | | | | | | | |
| Number of Units | | | | | | | |
| Single roomed | | | | | | | |
| 1 bed roomed | | | | | | | |
| 2 bed roomed | | | | | | | |
| 3 bed roomed | | | | | | | |
| 4 bedr:oomed | | | | | | | |
| 5 bed roomed or more | | | | | | | |
| Total | | | | | | | |
| a. Dees subletting take place in your rental housing schemes, if so to what extent? b. What is the rent per room sublet in Council rental units? From To Ksh.p.m. 4. Does your Council own any hostels? Yes No. 1 you own any hostels, please give details in the table below: | | | | | | | |
| name of hostel number of beds cost per month per person | | | | | | | |
| b. How much do you estimate that your tenants spend on housing as a percentage of their regular incomes? | | | | | | | |
| TENANT PURCHISE ACCOMMODITION How many Tenant Purchase Units had your Council in | | | | | | | |

| The second secon | 29 |
|--|--|
| i | Number of units |
| Single roomed 1 bedroomed 2 bedroomed | |
| 3 bedroomed | to the state of th |
| 4 bedroomed | The second section of the second seco |
| 5 or more bedroomed | A TANAN PARAMETER AND A TANAN A TA |
| Total | manufactures and property of standard property of the property |

a. How many tenants do you estimate are subletting their houses completely or partially in Tenant $P_{\mathbf{u}}$ rchase Schemes?

| 1 | subletting | number | - |
|-----|--|--|---|
| | completely | Appropriate and international statements and appropriate agreement and appropriate of the second second second | |
| | partially | and the second s | |
| - 1 | ام التلك و المنظم و المنظمة و المنظمة و المنظم الم | المساوري بران ما باوت تبريه والمساور والماري الموجود المهود و ما بالماري و ماري والماري و ماري والماري والماري | |

b. What is the rent per room sublet?

6 HOTEL/LODGING ACCOMMODATION

If you have hotel and lodging-houses, please give the details in the table.

| - | - | | ار در | برغور در | | | | | *************************************** |
|--|---|----|--|---|--|--------------|--|--|--|
| r | name | of | hote1/10 | dging | number | of | beds | Ksh.p.m. person | per |
| د ۱۳ ما دو | a nig gyber fir darsiffer Least. | | 19. januari jagari da 1 erri hajindigi jad diji. Ara 1 eri hi Malain da 1 kriminaji mengupidi ja 1 a Abademi | · · · · · · · · · · · · · · · · · · · | anggantangan satur pengaranan dan | | چې رب ښاه و سامي و د وی درې دار دی و د وی درې د | | *********** |
| raked of all participates of the same | and september the section is a section to | , | Aft byggetin deltalette parkette til p | | nguanga spur menerupanya sake sekelu | restource a | nantitik staganisasinin ketigal | and the second s | مد والمعادلة |
| that waters with the different | angananagananan Jamanya quan | | Marie Age Plant del por Università del Principal | Marine designation of the State of Assessment | and the six states a considerate of the section by the | - | gadinera agramment é arèn d' made | madaine Variorad madain a s'égal b | |
| a palmadan darkar samen darkar a a sin militar | ******** | | مسيمه والمراوة والمرا | | د . د ماهای میدار میشود فط همیش بیداره کند کمی | ***** | والمراورة والمراورة والمراورة والمراورة والمراورة والمراورة والمراورة | To have been a few or the second seco | partir light of the shortest |

7. HOUSING STOCK:

What is your Etest estimate of the total number of houses within your administrative boundaries? (All Housing, including private, pool, institutional, and temporary houses).

| | | NUMBER OF HOUSES | | | | | | | | | | |
|----------|---|-----------------------|-------------------|--|--|--|--|--|--|--|--|--|
| Types of | ownership | Within old boundaries | in extended Total | | | | | | | | | |
| Public | Staff Rental Pool/ Institutional Other Temporary | | | | | | | | | | | |
| Private | Residential Business/cum Residential unauthorized | | | | | | | | | | | |
| TOTAL | ./ | | | | | | | | | | | |

a. Does the housing stock consists of big units such as 4-roomed and 5 toomed units or of small untis made up of one room? If possible give break-down in numbers.

| o. of bedrooms | И | • | |
|----------------|--------|---------|---|
| | Public | Private | Total |
| 1 | | | |
| 2-3 | | | A STANGER OF THE WATER STANGERS AND |
| 4-5 | | | minness man de la company |
| 6 or more | | | |
| Total | | | |

| р. | wnat | per | centage | OI | your | nousing | stock | 1.5 | bullt | 01 | perma | nent | materials |
|-------------|------|-----|------------------|----|--------|----------|-------------------------------------|------------|---------|------|-------|------|-----------|
| | | | | | | | | _ % | | | | | |
| c. metei | | - | houses connec | | | iness-cu | m resid | dent | tial bu | uild | lings | have | individua |
| | | | | 1 | Number | r | anin dian indistring and and an op- | • | | | | | |
| | | | _ | | | | | | | | | | |

HOUSING DEMAND

| 8. | How | do | you | assess | the | housing | demand | in | your | administrat | ive a | rea? |
|------|----------------|----|-----|--------|-----|---------|--------|----|------|-------------|-------------|------|
| with | n respect to:- | | | | | | | | | | | |
| | | | | | | | | | | | Yes | No |

- 1. size in terms of housing units required.
- 2. Demand from public and private sector.
- 3. Monthly payments people are willing and able to pay.
- 4. Locations that are favoured.
- 5. Others.

Schemes?

| to | ot | her | · h | ous | sing | Š | | | | | | • | • | | | | | • | | | | | | ٥ | | | | | | | |
|-------|-------|-------|-----|-----|---------|----|-------|-------|-----|-----|-----|----|-----|-------|-------|----|-----|----|----|----|----|-------|-----|----|----|-------|-------|-----|-----|-------|---|
| | | | | | • • • • | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | e the | | | | | | | | - | | _ | | | | | - | | | | | | | | | _ | | |
| • • • | • • • | • • • | •• | • • | | •• | | • • • | | • • | v • | | • • | • • • | • • • | •• | | | | | •• | • • • | • • | | | • • • | · • • | | | • • • | • |
| | | | | | • • • • | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11. | | Wha | ı÷. | is | the | C1 | יוינו | ent | t a | ממו | ro | ve | d i | rer | ıt | st | ruc | tu | re | of | У | our | . 0 | ou | nc | il | Но | usi | ng. | | |

| - 31 - |
|--|
| 12. What is the rent for private rooms in authorized and unauthorized housing? |
| Kshs. p.m. |
| Authorized |
| unauthorized |
| Wild Will 126W |
| 13. What is the occupancy rate per room in Council Housing? |
| number of people per room |
| 14. Are there vacant houses at present in your administrative area, such as those for emergency cases, or undergoing repairs or very expensive? |
| yes |
| no |
| The Control of the Co |
| a. If yes, how many houses are vacant? |
| number |
| b. For question 14, if the answer is yes, what are the reasons for vacant houses? |
| ••••••••••••••••••••••••••••••••••••••• |
| |
| |
| PRESENT HOUSING PROBLEMS |
| 15. What is the <u>present</u> housing situation for the following categories of <u>Council staff</u> , with regard to: Housing shortgage, overcrowding, sharing houses, substandard houses etc. |
| a. Low income: All those earning up to Kshs. 800 per month? |
| |
| *************************************** |
| ••••••••••••••••••••••••••••••••••••••• |
| b. Medium Income All those earning between Kshs 800 to 2,000 per month |
| · · · · · · · · · · · · · · · · · · · |
| ••••••••••••••••••••••• |
| ••••••••••••••••• |
| c. High Income: All those earning 2000/- and over per month |
| ••••••••••••••••••••••• |
| ••••••••••••••••••••••••••••••••• |

| 16. What is the present housing situation for the following categories of Government staff. With regard to housing shortage, overcrowding, sharing houses, substandard houses etc. |
|---|
| a. Low Income: All those earning up to Kshs. 800 per month |
| |
| ••••••••••••••••••••••••••••••••••••••• |
| b. Middle Income: All those earning between 800 to 2000 shs. per month |
| *************************************** |
| .,.,.,. |
| c. <u>High Income</u> : All those earning Kshs.2000/- and over per month |
| *************************************** |
| ••••••••••••••••••••••••••••••••••••••• |
| 17. What is the present housing situation for the following categories of semi-government organisations, and large private firms with regard to housing shortage, overcrowding, sharing houses, substandard houses etc:- |
| a. Low Income: All those earning up to Kshs.800 per month |
| *************************************** |
| ••••••••••••••• |
| b. Middle Income: All those earning between Kshs.800 to 2000 per month |
| *************************************** |
| ••••••••••••••••••••••••• |
| c. High Income: All those earning Kshs. 2000 and above per month |
| •••••• |
| •••••••••••••••••••••••• |
| |
| 18 90-1 |
| 18. What is the present housing situation for the following categories of the Public at large (all those not covered in questions 15-17) with regard to housing shortage, overcrowding, sharing houses, substandard houses etc. |
| a. Low Income: All those earning up to Kshs. 800 per month |
| ••••••••••••••••••••••• |
| •••••••••••••••••••••••••••••• |
| •••••••••••••••••• |
| ••••••••••••••••••••••• |
| b. Middle Income: All those earning between Kshs. 800-2000 per month |
| •••••••••••••••••••••••••••••• |
| *************************************** |
| ••••••••••••••••••••••••• |

| 18c. High Income: A | ll those ear | ning Kshs | .2000 and above | per month. | |
|--|--|-------------------------------------|--|--|---|
| | | • • • • • • • • | A W # # # # # # # # # # # # # # # # # # | | u |
| | o • • o o • • o • • o a | • • • • • • • n | | | |
| • • • • • • • • • • • • • • • • • • • | | • • • • • • • • | | | • |
| PLANNING | | | | | |
| 19. If you are awar in your administrati | | | | | |
| Co-operative Private developers, Owner builders Please give descript | ions of the | projects | below: | | |
| | | | • • • • • • • • • • • • | | |
| | | | | | í |
| 20. If your council the schemes, descrip | tion of the | | | | - |
| Scheme | No. of | | source of F | inance | |
| | Units - | NHC | · · COUNCIL | OTHER (STATE BOD | Y |
| | | <u> </u> | ; 1 | | - |
| Rental | | | to resease and a service of the serv | الله في المواجبة المساورة المادين المادين المواجبة المواجبة المواجبة المواجبة المواجبة المواجبة المادين المادي المواجبة المواجبة الموادين الموادين المواجبة المواجبة المواجبة المواجبة المواجبة المواجبة المواجبة المواجبة الم | |
| Tenant Purchas Mortgage | | CONTRACTOR OF THE PROPERTY. | The second second second second section is a second | the state of the s | |
| Site & Service | | | } | and the second s | |
| 21. What type of ho administrative area? | Please giv | e reasons | for the choice | | - |
| | | | | | • |
| 22. Do you give any other than the super byelaws are followed | visory role ?) | (that is | ensuring that the | ne building | |
| | | | | | |
| • | | • • • • • • • | • • • • • • • • • • • • • | | • |
| | • • n • n • n • • 9 u | | | o • • • • • • • • • • • • • • • • • • • | ۰ |
| • • • • • • • • • • • • • • • • • • | | , | | | |
| 23. If you are awar | • • • • • • • • • • • | | | ******* | |
| such as industrial, may create an extra | e of any precommercial, | sent or f | uture major deve | elopment projects | |
| such as industrial, | e of any precommercial, | sent or f | uture major deve | elopment projects | |
| such as industrial, | e of any precommercial, ademand for he | sent or f administr ousing, p | uture major deve ative or agricul lease give brie: | elopment projects | • |
| such as industrial, | e of any precommercial, a demand for h | sent or f administr ousing, p | uture major deve ative or agricul lease give brie: | elopment projects lturial which f descriptions. | 0 |

24. Does your Council have sufficent land for current purpose (i.e. up to 1983) and for the future (that is 1983-2000) housing development?

| 1 | pres i | no | 1 |
|-------------------|--|--|---|
| current future | The second secon | i ka sakulan kanaksi dahigajing sakula pada sakula ang sakulan ang sakulan pada I | 4 |

a. If the answer is yes, to current and/or future land for housing development, please give amount of land available.

| | hectare |
|---|--|
| *************************************** | u gan, alama ang maganan na tang kaya ad sangkap dan singkapan na sandan sa manda sang palam. Nali dan man Philosophi Sah Sah Birdhan Sah |
| current future | of dissipation for the second of the second |
| Total | And the second of the second o |

b. How much of the available land is already serviced with water supply, sewage, storm water drainage, roads, etc. If partly serviced (e.g. water only) please indicate what these services are.

| | hectare fully serviced partly serviced |
|---------|---|
| current | |
| future | |
| Total | |

c. What is the allocation of the available land for the different types of housing development by density in hectares.

| A the second section of the second second second second section of the second s | Contraction to the second of the second | Commence and the second | | | | |
|--|--|--|--|--|--|--|
| | Hectares | | | | | |
| density | current | Total | | | | |
| low | and the second s | REPUBLISHED A D. Charles A D. Charles A. C. | | | | |
| high | المراجعة والمراجعة و | n tana ayan da ayan da da catan da da aran da ayan da a | | | | |
| Total | TABLE STATE OF PROSPECTATION OF THE PROSPECTATION | and the second second | | | | |
| - 1 - 12 - 15 - 16 - 16 - 16 - 16 - 16 - 16 - 16 | to remain a real constant | e aura paramenta del manamenta de la companione de la companione de la companione de la companione de la compa | | | | |

d. What would be your current and future land requirements for housing development by density in hectares.

| And the state of t | h | ectare | 1 |
|--|--|--|---|
| density | current | future | total |
| low medium | and the second s | n gi i namu yaliyini ya i i i i inan yaki dinagashi. Ma | |
| high | An hair saight in shift an a filleacuit superryan a co | de region ten remains qui l'adig : l'était de la cili de l'appris de la capital de la capital de la capital de | A C C C C C C C C C C C C C C C C C C C |
| Total | The state of the s | and a sum of the parties of the sum of the s | .735 |

4. Population as a base for urban development.

4.1. Introduction.

The size of population, its age and sex structure are very important for any housing projections. For example knowledge of total population size plus an average household size can lead to the crude estimation of the minimum housing stock required. On the other hand, distribution of population by age and sex is crucial in determining labour force which shows the number of people out of the total population that is available for employment. A fast growing population is usually associated with high fertility rate which indicates a high dependency ratio (i.e. the ratio of people not in the labour force to total population). High dependency ratios tend to have negative effects on the savings and investments in the country.

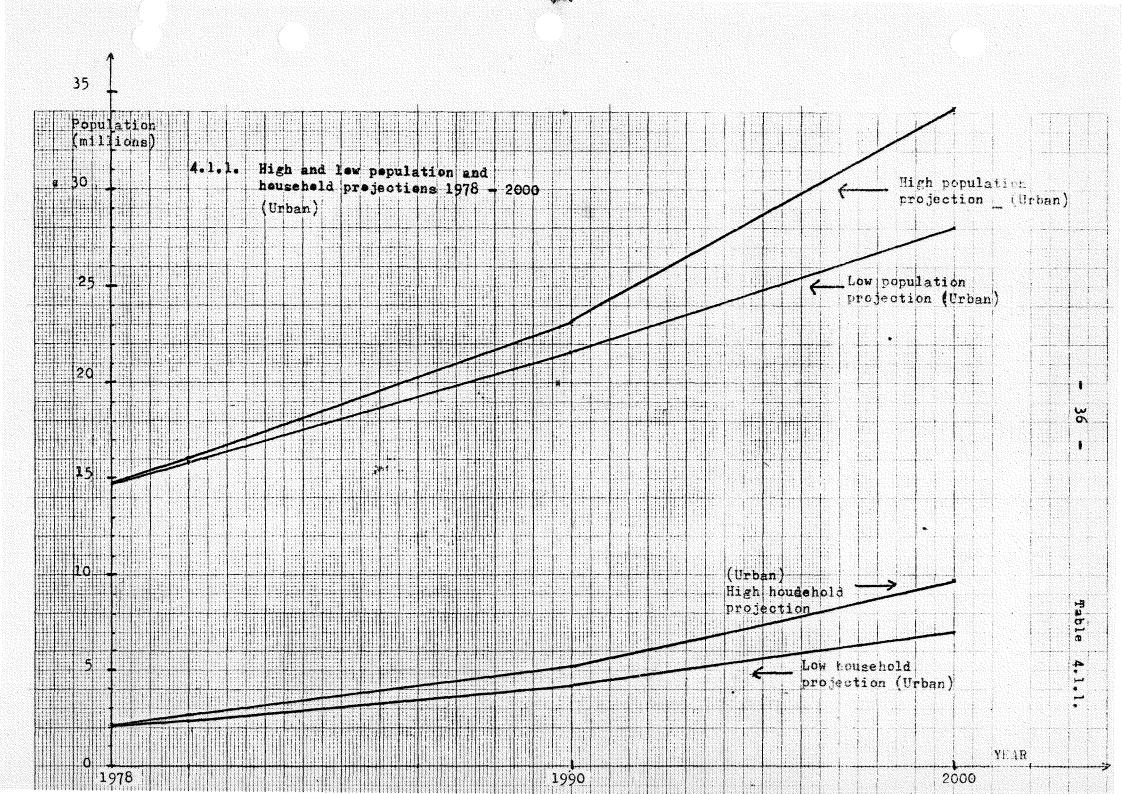
The starting point for any housing policy formulation or projections is always population. The tables below show the population sizes according to low and high projections (23)uptb, the wear 2000.

Low projection implies a reduction in the fertility rate to 4 by the year 2000 whereas with the high projection there is no change in age specific fertility. (see graph 4.1.1.).

Migrant population is obtained by assuming that the ratio: of national population increase to the total national population is the same as that for rural population increase to the total rural population.

4.2. Low Population Projection.

With the low population projection, urban population rises from about 2 million people in 1978 to over 7.5 million people in the year 2000. During the same period the proportion of the urban population to the total population rises from 14% to 25%. The estimated total urban population increases between 1978-2000 is about 5 million of which 54% will be migrants, according to the low population projection. This implies an additional 1.3 million households that will have to be accommodated by the year 2000.



- 37 - 4.2.1. - POPULATION, LOW URBAN PROJECTION - 1978-2000.

| | | | | | | | |
|--------------------------------|-------------|---------------------------|--------------|------------|-------------|-----|--|
| [| | POPULATION | | | | | |
| 1 | Kenya | | Rural (4) | | Urban (3) | | |
| Year | 1000 | % | 1000 | % | 1000 | % | |
| 19 7 8 | 14,806(1) | 100.0 | 12,781.1 | 86 | 2,024.9 | 14 | |
| 1980 | 15,877(2) | 100.0 | 13,492.6 | 85 | 2,384.4 | 15 | |
| 1990 | 21,617(2) | 100.0 | 17,391 | 80 | 4,226.0 | 20 | |
| 2000 | 28,131(2) | 100.0 | 20,998 | 7 5 | 7,132.5 | 25 | |
| | | | | | | | |
| Period | | $\underline{	t Increase}$ | ļ | | | | |
| 1978-1980 | 1,071 | 100.0 | 711.6 | 66 | 359•5 | 34 | |
| 1989-1999 | 5,740 | 100.0 | 3,898.4 | 68 | 1,841.6 | 32 | |
| 1990 – 200 0 | 6,514 | 100.0 | 3,607.0 | 55 | 2,906.5 | 45 | |
| 1978-2000 | 13,325 | 100.0 | 8,217 | 62 | 5,107.6 | 38. | |
| | | | | | | | |

- (1) Kenya Statistical Digest, September, 1972
- (2) Kenya Statistical Digest, June, 1971
- (3) Urban Population Projections 1969-2000 by Ministry of Finance and Planning.
- (4) By Subtraction.

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4.2.2. - Population Increase and Migration, Low Urban Projection (1000) 1978-2000

| Increase | Kenya (1) | Total (1) Rural | Rural Natural(2) | Out (3) Migration | % Natural Increase | Total(1) Urban | Urban Natural (3) | In Migration |
|-----------|----------------|--------------------|---------------------|----------------------|-----------------------|-------------------|----------------------|-----------------|
| 1978-1980 | 1,071 | 711.6 | 894.7 | - 183.1 | 26.0 | 359.5 | 176.4 | + 183.1 |
| 1980-1990 | 5 , 740 | 3,898.4 | 4,857.1 | - 958 . 7 | 25.0 | 1,841.6 | . 882.2 | + 958.7 |
| 1990-2000 | 6,514 | 3,607.0 | 5,217.3 | -1610.3 | 45.0 | 2,906.5 | 1,296 | +1610.3 |
| 1978-2000 | 13,325 | 8,217.0 | 10,969.1 | -2752.1 | | 5,107.6 | 2,355.5 | +2752.1 |

⁽¹⁾ From the previous Table.

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Ţ

 $⁽²⁾_{1\overline{4,306}}^{1071} = \frac{894.7}{12,781.1}$

⁽³⁾ By Subtraction.

4.3. High Population Projection.

With the high population projection, urban population rises from about 2 million people in 1978 to almost 10 million people in the year 2000. During the same period the proportion of urban population to the total population will rise from 14% to 25%. The estimated population increase between 1978-2000 is about 7 million of which 50% will be migrants, according to the high population projection. This implies an additional 1.8 million households that will have to be accommodated.

4.3.1. - POPULATION, HIGH URBAN PROJECTION - 1978-2000.

| | POPUL | ATION | | | | |
|-----------|--------------------|----------|----------|---------|---------|----|
| | | | | cal (4) | Urban | |
| Year | 1000 | % | 1000 | % | 1000 | % |
| 1978 | 14,875(1) | 100.0 | 12,729.4 | 86 | 2,145.6 | 14 |
| 1980 | 16,053(2) | 100.0 | 13,502.5 | 84 | 2,550.5 | 16 |
| 1990 | 23,302(2) | 100.0 | 18,092.6 | 78 | 5,209.4 | 22 |
| 2000 | 34 , 286(2) | 100.0 | 24,584 | 72 | 9,701.5 | 28 |
| Period | | Increase | • | | | |
| 1978-1980 | 1,178 | 100.0 | 773.1 | 66 | 404. 9 | 34 |
| 1980-1990 | 7, 249 | 100.0 | 4,590.1 | 63 | 2,658.9 | 37 |
| 1990-2000 | 10,983 | 100.0 | 6,491.9 | 59 | 4,492.1 | 41 |
| 1978-2000 | 19,410 | 100.0 | 11,855.1 | 61 | 7,555.9 | 39 |

- (1) Kenya Statistical Digest, Septermber, 1972.
- (2) Kenya Statistical Digest June, 1971.
- (3) Urban Population Projections 1969-2000 by Ministry of Finance and Planning.
- (4) By Subtraction.

4.3.2. - POPULATION INCREASE AND MIGRATION, HIGH URBAN PROJECTION ('000) - 1978-2000.

| Increase | Kenya (1) | Total (1) Rural | Rural Natural(2) | Migration(3) | % of Natura | l Total (1) Urban | Urban Natural | In Migration(3) |
|-----------|-----------|--------------------|---------------------|-----------------|-------------|----------------------|------------------|--------------------|
| 1978-1980 | 1,178 | 773.1 | 1,008.1 | - 234.9 | 30.0 | 404.9 | 170 | + 234.9 |
| 1960-1990 | 7,249 | 4,590.1 | 6,397 | -1,507.1 | 33.0 | 2,658.9 | 1,151.8 | +1507.1 |
| 1990-2000 | 10,983 | 6,491.9 | 8,503.5 | -2011.6 | 31.0 | 4,492.1 | 2,480.5 | +2011.6 |
| | | | | | | | | |
| 1978-2000 | 19,410 | 11,855.1 | 15,608.6 | 3,753•5 | | 7,555.9 | 3,802.4 | +3753•5 |

(1) From previous table.

 $\begin{array}{rcl} (2) \ \underline{1,178} & = \ \underline{1008.1} \\ 14,875 & 12,729.4 \end{array}$

(3) By Subtraction.

4.4. HOUSING PRODUCTION.

During the last Development Plan Period. 1974-78, it was estimated that approximately 6,600 complete housing units were constructed in urban areas using Government funds. Assuming that public and semi-public housing units were in the range of 7,000 and that they accounted for 23% of completed dwelling units. In the Public and Semi-Public Housing Stock Report by the Ministry of Housing and Social Services, it was found that public and semi-public housing accommodates 23% of the total population. Based on the above assumption, the total number of permanent completed housing units (including private) for the Plan Period 1974-78 per

For the next 22 years, the housing production capacity has to reach the lovel of about 80,000 housing units for annum according to the low population projection and 140,000 housing units per annum according to the high population projection. These housing production capacities are meant to cater just for the increase in population. No account is taken for overcrowding, present shortfall, depreciation and slum clearance. This means that present housing production capacity must be stepped up eight to twelve times the present production capacity, provided all the households are to be accommodated in permanent houses.

5. LABOUR FORCE AND EMPLOYMENT

5.1. Labour Force Projections:

In housing, the people who pay for housing are those in the labour force because they are capable of having gainful employment. For purposes of this study the theoretical labour force will be considered, that is the sum of those 95% of men aged 15-59 and 45% of females between ages of 15-59. Based on these assumptions below is the projected labour force for the whole country.

Table 5.1.1. Labour force projections 1975-2000.

| | High Projection | | Low Project | ion |
|------|-----------------|-----------------|-------------|---------------|
| Year | NUMBER | Rate % | n NUMBER | Rate % |
| 1975 | 4,515,000 | 3.48 | 4,515,000 | 3.48 |
| 1980 | 5,357,000 | 3•57 | 5,357,000 | 3•57 |
| 1985 | 6,376,000 | | 6,376,000 | |
| 1990 | 7,667,000 | 3.70 3.85 | 7,667,000 | 3.70 3.48 |
| 1995 | 9,258,000 | - 3 . 91 | 9,090,000 | 3 . 14 |
| 2000 | 11,215,000 | J•91 | 10,611,000 | J•24 |

Source: - Kenya Statistical Digest June, 1971 Vol. IX - No.2.

From the above table it can be seen that the size of the labour force according to the high population projection will be rising at growth rates of 3.6% to 3.9% between 1980 and 2000. The labour force will rise from 4.5 million in 1975 to 7.7 million in 1990 an increase of 3.2 million (for the whole country) for both sets of projections i.e. low and high. Then from 1990 to 2000 the labour force will rise to 11.2, which is again an increase of 3.5 million, according to the high projection.

During the same period, the labour force according to the low population projection will rise to 10.6 million, an increase of 2.9 million. Between 1975-2000 the total labour force for the country will therefore increase by 6.7 million and 6.1 million according to the high projection and the low-projection respectively.

In the table below a comparison has been made between the population projections and their corresponding labour force.

| Table 5.1.2 - Population | on and | labour | force | projection | 1975-2000. |
|--------------------------|--------|--------|-------|------------|------------|
|--------------------------|--------|--------|-------|------------|------------|

| | High Projec | tion | ! | Low Projection | | |
|------|-------------|--------------|---------------------|----------------|------------|--------------|
| Year | Total | Labour Force | | Total | Labour Fo | rce |
| | Population | Number | % % Total | Population | Number | % % Total |
| 1975 | 13,413,000 | 4,515,000 | 34 | 13,413,000 | 4,515,000 | 34 |
| 1980 | 16,053,000 | 5,357,000 | 33 | 15,877,000 | 5,357,000 | 34 |
| 1985 | 19,310,000 | 6,376,000 | 33 | 18,635,000 | 6,376,000 | 34 |
| 1990 | 23,302,000 | 7,667,000 | 33 | 21,617,000 | 7,667,000 | 35 |
| 1995 | 28,213,000 | 9,258,000 | 33 | 24,795,000 | 9,090,000 | 37 |
| 2000 | 34,286,000 | 11,215,000 | 33 | 28,131,000 | 10,611,000 | 38 |

Source: Kenya Statistical Digest June, 1971 Vol. IX No.2.

The high projection labour force will rise to about 11.2 million, the whereas that for the low projection will rise to 10.6 million by the end of the century. For both high and low projection this means that the labour force will more than double between 1975 to 2000. In absolute numbers this implies finding jobs for over 6 million people according to high and low projections.

The proportion of labour force to the total population for high projection will be constant at 33% whereas that for low projection ranges from 34-38%.

Assuming that the proportion of labour force in urban areas is equal to that pertaining for the whole of the country, one can then apply these percentages on the urban population projections, as is shown in the table below.

Table 5.1.3. - Urban Population and Urban Labour Force Projection 1978-2000.

| | High | | | Low | | |
|--------------|---------------------|--------------------|---------|---------------------|-----------|------|
| Year | Urban Population | Labour E Number | Force % | Urban Population | Labour F | orce |
| 1978 | 2,211,000 | 7522000 | 34 | 2,083,000 | 708,000 | 34 |
| 198 <u>0</u> | 2,545,000 | 840,000 | 33 | 2,383,000 | 810,000 | 34 |
| 1983 | 3,077,000 | 1,015,000 | 33 | 2,836,000 | 964,000 | 34 |
| 1990 | 4,910,000 | 1,620,000 | 33 | 4,206,000 | 1,472,000 | 35 |
| 2000 | 9,227,000 | 3,045,000 | 33 | 6,870,000 | 2,611,000 | 38 |
| Increase | _ | | - | | | |
| 2000. | 7,016,000 | 2,293,000 | 33 | 4,787,000 | 1,903,000 | 40 |

In the period 1978 to 2000 the labour force in urban areas is expected to increase with 2.3 million people according to the high projection and with 1.9 million according to the low projection.

The percentage of the marginal increase of the labour force in the high projection is the same as in the averages for the various years. In the low projection however, the marginal increase is 40%, an increasing share of labour force in the total urban population for the period 1978-2000.

5.2. Employment:

The labour force is the total number of potential available manpower. At any one time only part of the labour force is gainfully engaged.

No statistical coverage is available for the total employment, including self-employment in urban and rural areas in Kenya. In the table below data on the wage employment including casuals is given.

Table 5.2.1. - Wage Employment by Industry 1972-1975:

| Industry | 1972 | 1973 | 1974 | 1975 |
|---|-----------------------|---------|---------|------------------|
| Mining and Quarrying | 3,166 | 3,407 | 3,869 | 3,543 |
| Manufacturing | 84,804 | 94,453 | 101,332 | 100,731 |
| Electricity & Water | 5,148 | 5,374 | 5,694 | 7,742 |
| Construction Transportation Storage a Communication. Commerce | nd 45 , 313 | 44,079 | 46,310 | 45 , 475 |
| (wholesale & Retail Trad Restaurants & Hotels. | գ) 47,638 | 46,575 | 57,021 | 53 , 690 |
| Servicos | 249,252 | 261,212 | 306,452 | 326,774 |
| Total | 472,926 | 496,019 | 565,115 | 578 , 477 |
| Agriculture | 246 , 851 | 265,356 | 261,148 | 240,609 |
| Grand Total | 719,777 | 761,375 | 826,263 | 819,086 |

Source: - Statistical Abstract 1976.

In 1975, only 819,086 people were engaged in wage employment, representing 18% of the total labour force.

5.3. Labourforce and households:

In every household one can assume that there will be at least one breadcarner. The potential breadcarners (labourforce) can be more or less the number of households. Hence determine the ratio of the potential number of breadcarners per household.

Table 5.3.1 - Ratio potential breadcarners per household

| İ | High Projection | | | Low Projection | | | | |
|----------------------------|--------------------------|-------------------------|---|--------------------------|-------------------------|---|--|--|
| Year | Urban Labour Force | Urban House holds | ration potential breadearners per household | urban labour force | urban house holds | ration potential breadearners per household | | |
| 1978 | 752,000 | 553,000 | 1.4 | 708,000 | 521,000 | 1.4 | | |
| 1980 | 840,000 | 636,000 | 1.3 | 810,000 | 596,000 | 1.4 | | |
| 1983 | 1,015,000 | 769,000 | 1.3 | 964,000 | 709,000 | 1.4 | | |
| 1990 | 1,620,000 | 1,228,000 | 1.3 | 1,472,000 | 1,052,000 | 1.4 | | |
| 2000 | 3,045,000 | 2,307,000 | 1.3 | 2,611,000 | 1,718,000 | 1.5 | | |
| Increase 1978 - 2000 | 2,293,000 | 1,754,000 | 1.3 | 1,903,000 | 1,197,000 | 1.6 | | |

With the high projection the urban households increase has on an average 1.3 potential breadcarners per household. For the low projection this figure differs considerably, with potential breadcarners available for the households increase over the period 1978-2000. This means, with the low projection less households will require accommodation and also have a greater potential of increasing their household income and hence ability to pay for housing. The determining factor will however, be the increase of job opportunities in the period under review for finding gainfully employment.

General Observations and Recommendations

- 1. There is no record of the total existing housing stock in the country. The Ministry of Housing and Social Services had made an attempt to compile the public and semi-public housing stock for the whole country. Apart from the statistics for the 22 major towns, (see table 6.1) statistics for the rest of the country are not well documented. It is important that the Ministry of Housing and Social Services works out a methodology and statistical machinery of arriving at existing housing stock. Priority should be put on the task of establishing housing stock because it is from the existing housing stock and the quality thereof, that housing needs can be soundly projected. All dwellings need not be counted in the housing stock especially if they are deemed inhabitable. For this reason there is need to define the term house (dwelling) plus the expected practical standards.
- There seems to be no reliable record of total house production.

 The Ministry of Housing and Social Services is trying to compile statistics on housing production but this seems to be very taxing on the Ministry's staff especially when the centres concerned are not involved.
- 3. There is lack of communication between the Ministry and the local authorities concerning housing issues. The Ministry should be contacting the local authorities regularly to assess the housing situation. This can be done through an annual housing questionnaire to the local authorities.
- 4. As it has been observed while pre-testing the housing questionnaire, it is important to hace uniformity of the urban population referred to at both the central and local levels.

6.1. PUBLIC AND SENI-PUBLIC HOUSING STOCK IN KENYA BY TYPE OF DEVELOPMENT AND BY ADMINISTRATION AS AT 31ST DECEMBER 1975. - KENYA

| type of development | Plot | 5 | | Unit | . | | Tôtal — Rooms |
|--|--|------|---------|-------|------------------------------------|------------------------------------|------------------|
| Housing administered by | Ω.Θ. | 5.&5 | т.Р. | Mort. | Rent | Total | 1/001118 |
| 1. Municipal/Town Council 1. H.F.C.K. | | , | 486 | 17 | 29 | 575 | 2280 |
| 2. Oithers | 343 | 3731 | 3718 | 29 | 31940 | 35687 | 68502 |
| 2. County Council | | 779 | 115 | | 3505 | 3620 | 6927 |
| 3. Min. of Works l. Pool | | | | | 9118 | 9118 | • |
| 2. Instituțional | | | , | | 20520 | 20520 | • |
| 3. Armed forces | | | | | 1455 | 1455 | ۰ |
| 4. Min. of Housing & Social | | | | | | | |
| Services. | | | 34 | | | 34 | • |
| 5. Min. of Finance & Planning |) | | 151 | | e00 | 951 | |
| 1-5 TOTAL PUBLIC | 343 | 4510 | 4504 | 46 | 67410 | 71960 | |
| 6. East African Community . (pool) 7. E.A. Airways Corporation . E.A. Harbours Corporation 9. E.A. Posts & Telecommunications Corporation. 10. E.A. Railways Corporation 11. H.F.C.K. 1. Civil Servant | A COMPANY CONTRACTOR OF THE CO | | | | 825 276 1206 594 16700 | 825 276 1206 594 16700 | o o |
| Housing | | | | 229 | | 229 2914 | 1119 13701 |
| 2. Schemes (excl,indiv.) 12. NHC. 1. Min. of Housing 8 2. Council 3. Others (excl. rural | i | | 52 - | 2914 | 369 | 52 369 | 261 362 |
| loans) | 216 | | 653 | 3 | 681 | 1537 | 5242 |
| 6-12 TOTAL SEMI-PUBLIC | 216 | _ | 705 | 3146 | 20051 | 24702 | |
| 1-12 GRAND TOTAL | 559 | 4510 | 5209 | 3192 | 88261 | 96662 | |
| (ultimately) private , plots | 13470 | | | | | | |
| Semi–public + public rental ⊌nits | 88261 | | | | | | |

X) to be read with the explanatory notes of the housing stock report

^{9. =} Owner Builder

S = Site-and-service T.P. = Tenant purchase

Mort. = Mortgage,

Rent = Public Rental + Staff (Rental)

^{- =} Zero

^{. =} not known

blank= not applicable

- 5. It was obvious from the trips made for the pre-testing of the questionnaire that some local authorities were not very conversant with what housing involved and therefore neglected it. Only the revenue collection from housing was important, and therefore other issues of housing such as people on the waiting list and the general housing situation were immaterial. The Ministry should try to ensure through the Ministry of Local Government that housing is given its due weight within the local authorities especially with regard to manpower.
- 6. It appears that housing plicy is formulated from the top (i.e. the Ministry of Housing plus the National Housing Corporation) without referring to the local authorities. Policy adoption, be it social, political or economic, should be flexible to accommodate diversity between different places. For example Narok in the Rift Valley with its nomadic Masai does not approve of any housing scheme that involves individual ownership because of the fear that non Masai would take Masailand. This could be true of other places similar to Narok. If housing loans are to be given to people in different parts of the country, consideration should be made on the disparity of incomes and building costs to allow for flexibility. For example if a site and service plot was allocated to someone in one of the big urban centres, this person will find it very easy to sublet, once part of the structure is erected and hence raise extra income which can be used for the completion of the structure.

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List of 105 urban growth centres in Kenya

| | District | Centre | District | Centre |
|-----------|--|--|-----------------------------------|--|
| 1. | .Nairobi | Nairobi | Machakos | Machakos |
| | | وهٔ معولا والخاصفون مولیاسیان وایشید به در معهدود وزموار <u>ایت واههای</u> د | | Kangundo |
| ۷. | Central Province | , | | Kilome |
| | Kiambu | Thika ' | | Athi River |
| | Klambu | | | Mbooni |
| | | Limuru | | Makueni(Boma |
| | | Kiambu . | | |
| | | Ruiru | Marsabit | Marsabit |
| | | Kikuyu Githunguri | | |
| | | Gremmantr | Meru | Meru |
| | Kirinyaga | Kerugoya (| | Nkubu |
| | Kirinjaga | | ! | Chuka |
| | | Sagana | | Chogoria |
| | | Wanguru | i | Maua |
| | Muranga | Muranga | E M. while D. who was De | a new cost continue organists among the happenine continue to the said the con- |
| | mar anga | Makuyu | 5. <u>North Eastern Pr</u> | ovince |
| | | Makuyu Kangema | : Garissa | Coniaco |
| | | Kandara : | , Gartesa | Garissa |
| | | | M valara | 16 |
| | | Maragua : | Mandera | M_{a} ndera |
| | Nyandarua | Nyahururu | ; , Wajir | Wajir |
| | 2.7 | Ol Kalou | , wajii | wajii |
| | | i | | |
| | Nyeri | Nyeri | 6. Nyanza Province | • |
| | | Karat ina | | |
| | | Othaya : | Kisii | Keroka |
| | | Kiganjo : | | Kisii |
| | , | 112841119 | | Manga |
| | en er en state de la serie de la company de la company de la c | To the second se | | Ogembo |
| • | Coast Province | ! } | T/ 1 | 77.1 |
| | | | Kisumu! | Kisumu |
| | Kilifi | Malindi | | Ahero |
| | | Kilifi | , g | 771 7 |
| | | Mariakani | Siaya | Ukwala |
| | | | | Yala |
| | Kwale | .Kwale | • | Siaya |
| | | Kinango | (Con+2- NT | 77 A D |
| | _ | 1 | South Nyanxa | Kendu Bay |
| | Lamu | Lamu | ; | Migori |
| | ngl | 1 | , | Homa Bay |
| | Mombasa | Mombasa | | |
| | | | 7.Rift Valley Prov | inco |
| | m | | | TTT C |
| | Taita/Taveta | Voi | THE TO VALLOY 110V | |
| | Taita/Taveta | Voi Wundanyi | | Kahamat |
| | | Wundanyi | Baringo | Kabarnet |
| | Taita/Taveta Tana River | | | |
| } _ | Tana River | Wundanyi | Baringo | Eldama Ravin |
| . <u></u> | | Wundanyi | Baringo Elgeyo-Marakwet | Eldama Ravin Iten |
| . <u></u> | Tana River Eastern Province | Wundanyi Hola | Baringo | Eldama Ravin Iten Kajiado |
| | Tana River | Wundanyi Hola Embu | Baringo Elgeyo-Marakwet | Eldama Ravin Iten Kajiado Ngong |
| • | Tana River Eastern Province | Wundanyi Hola Embu Runyenjes | Baringo Elgeyo-Marakwet | Eldama Ravin Iten Kajiado |
| <u></u> | Tana River Eastern Province | Wundanyi Hola Embu | Baringo Elgeyo-Marakwet Kajiado | Eldama Ravin Iten Kajiado Ngong Magadi |
| F• | Tana River Eastern Province Embu | Wundanyi Hola Embu Runyenjes Siakago | Baringo Elgeyo-Marakwet | Eldama Ravin Iten Kajiado Ngong Magadi Kericho |
| F• | Tana River Eastern Province | Wundanyi Hola Embu Runyenjes | Baringo Elgeyo-Marakwet Kajiado | Eldama Ravin Iten Kajiado Ngong Magadi Kericho Sotik |
| + • | Tana River Eastern Province Embu Isiolo | Wundanyi Hola Embu Runyenjes Siakago Isiolo | Baringo Elgeyo-Marakwet Kajiado | Eldama Ravin Iten Kajiado Ngong Magadi Kericho Sotik Londiani |
| . <u></u> | Tana River Eastern Province Embu | Wundanyi Hola Embu Runyenjes Siakago | Baringo Elgeyo-Marakwet Kajiado | Eldama Ravin Iten Kajiado Ngong Magadi Kericho Sotik |

List of 105 urban growth centres in Kenya (continuation)

| | District | Centre |
|------------|----------------------|--|
| ya sayangi | Laikipia | Nanyuki Rumuruti |
| • | Nakuru | Nakuru Njoro Molo Naivasha Elburgon Gilgil |
| | Nandi | Kapsabet Nandi-Hills |
| | Narok | Narok |
| | Samburu | Maralal Baragoi Wamba |
| | Trans-Nzoia | Kitale |
| | Turkana | Lodwar Lokitaung |
| e | Uasin-Gishu | Eldoret |
| | West-Pokot | Kapenguria/Makutano |
| 8. | Western Province | ra kai estand terepadatusko katel kalan er distribundaga seka etteret sember entek et di |
| | Bungoma | Webuye Kimilili Bungoma |
| | $B_{\mathbf{u}}$ sia | Busia |
| | Kakamega | Kakamega Mumias Maseno Butere Majengo Khayega Kaimosi |

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