# MIGRAIIION SURVEY IN KISURU TOWN 

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## DECLARATION

This thesis is my original work and has not been presented for a degree in any other University

(Candidate)

This thesis has been submitted for examination with our approval as University supervisors


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## ABSTRACT

In studying internal migration scholars of population studies have recognised four typologies, namely, rural-rural, rural-urban, urban-urban and urban-rural.. Most migration studies in Kenya have pivoted around rural-urban migration. This may be attributed to the fact that polarised development has occurred in urban centres to which migrants are attracted due to good job opportunities, availability of better educational, medical and other facilities. Whereas the process has been adequately studied on a national scale, its documentation on a regional scale is badly lacking. This study was therefore aimed at satisfying this requirement besides collecting data that would be useful in future planning of Kisumu town and region.

The town was stratified into three socioeconomic groups - low, medium and high income areas from which samples were drawn. Ey interviewing those residents who were included in the sample, it was, possible to collect information, demographic and non-demographic, in the town. This was supplemented by other sources of information such as census data, municipality records and library material. Three basic items have been
examined in this study.
First, basic mieration differentials have been discussed. Thess include personal attributes of respondonts such as othnic group, tribal affiliation, sex, age, marital status, educational attainment and economic activity. It was found that Africens are predominant and of this sthnic group Lucs are by far the majority in the town Also, mele dominance was experienced although an anonalous eex ratio appeared among those aged 0-4 years where femalo dominance occurred. The peak of migration seems to be in the 20-29 age brackst, the youngest and best educated migrants. It became clear that high.oducation increases people's propensity to migrate since it enhances employment opportunities particularly in skilled jobs. Economic activity was the most significent migration differential as, among other things, it determines stabilication in urban residence.

Second, spatial migration system of the town has been examined at two levels: on a national perspective by provinces of Kenya and on a regional scale within the Kisumu Region (the torn's hinterland). At both levels home information proved to be more reliable than birthplace as an index of determining

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migrants. It was realised that theoretical migration models which have been developed by scholars elsewhere had only a marginal bearing on this study. But the theoretical inverse relationship between migration and distance turned out to be true. Several causes of migration were identified the most significant being economic.

Third, interdependence of migration and spatial physical planning has been probed into. The Kisumu Region is a "downward transitional" region where out-migration to "supward transitional" and "core" regions alleviates the burden imposed on its underdeveloped economy. Through physical planning and rural development programme, it is expected to dam floods of migrants from this region. Kisumu town occupies the highest position of the hierarchical structure of growth centres in West Kenya. There is need to adopt comprehensive urban and regional planning of metropolitan Kisumu taking cognizance of demographic realities. Planning of the town calls for an inventory of several facilities such as medical services, education and public transportation which require improvement as they are currently very inadequate.

> A fow conclusions may be drawn to this
study. In the first place provincial migrants are by far the majority in the town. But the town attracts population irrespective of ethnic or political boundaries. Also, education tends to sharpen migrants' percoptions and aspirations and gravitates them to urban contres. Economic reasons for migration wero found to be paramount but non-economio factors should not be undorestimated.

Experience got from this study heralds similar surveys to be conducted in other major Kenya towns, Nairobi, Mombasa and Nakuru. Again, migration studien could conveniently incorporate other priority interests, for example educational, manpower and agricultural policies. Inter-disciplinary approach to this complex phenomenon is likely to produce oven better resulto thereby blurring theoretical boundariea between different disciplines which have a stake in migration atudies.

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## PREFACE

Migration studies which have becn carried out in Kenya so far have been on a national or macro-scale. This conceals some vital features.relating to the migration process and migration differentials on a regional or micro-scale. The present study attempts to fuse the $t$ wo by examining migration to Kisumu and considering the implications of migration on urban and regional planning. It has been found that whereas internal migration studies have examined spatial interaction between different population regions, they have inadequately depicted the situation at the regional scale.

Kisumu town is situated in the heart of a significant population region, namely, the Lake Victoria Basin cluster. This is a region in which environmental hazards and population pressure have combined to create an adverse population-resource relationship thereby resulting in out-migration of the inhabitants. In order $\infty$ to diagnose development strategies j.t is necessary to collect demographic as well as non-demographic data that : would form the basis for urban and regional planning in Weatern Kenya. This study is the outcome of such data collected through interviewing residents of Kisumu town.

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picld surveys in the town were spread over one year. They included pilot studies, pretesting the questionnaire and other related items which were a prelude to the actual interviews. Scientific sampling procedure was adopted so as to select a representive gample from which inferences about the population havo boen made. The wholo research programme involved funds, research asgiatants (here called enumeratorn) and help from several pergons and institutions to which the author is indebted.

I would like to register my appreciations for help received from several porsons and institutions, all of whon deserve mention but for lack of space. But mention may be made of the Office of the President particularly its Provincial and District Administration personnel in Kisumu who gave me a letter of introduction without which $I$ would have made little headway in the field. I am also thankful to all officers of the Municipality of Kisumu who, in one way or another, undertook to ensure sucoess of this research besides allowing me access to their records.

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I am grateful to the Population Counoil,
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New York, for thoir grant which included making funds available for this resoarch. This also embraced pajment
of my six enumerators: Messrs. F. Oula, A.O. Opiyo, W. Odero, A. Ogutu, J.H.O. Owade and A.O. Resa whose names must be recorded in appreoiation of their good work. With them lay the responsibility of data collection which forms the bulk of this work.

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To acknowledge the generous help received from the foregoing is not to suggest that any of them are responsible for the shortcomings of the finished product. For whatever errors there may be in oither fact or analysis the author alone is responsible.

## BACKGROUND TO THE STUDY AREA

## Geographical Background

Kisumu town is the biggest urban centre in the whole of Western Kenya. Situated at the hoad of Winam Gulf of Lake Victoria the town rises gradually from about 1131 metres ( 3,720 feet) on the lake shore to over 1170. metres ( 3,850 feet) in the southern residential area and to no more than 1186 metres ( 3,900 feet) in the northeastern residential area. ${ }^{1}$ It stands on a downfaulted lava ridge in the floor of the Nyanza Rift Valley which extends some 129 kilometers ( 80 miles) from the lake until it is concealed beneath the volcanic outpourings of Tinderet Hills to the north-aast.

Ominde states that the hunan geography of Hestern Kenya (Kisumu's sphere of influence) may de best understood against a background of five main physiographic units into which the area can be divided. These include the Elgon Mass, the Northern Plateau, the Southern Plateau, Kisii Highlands, and the Nyanza Rift Zone with its associated lowlands. ${ }^{2}$ Probability of rainfall ranges from a mean annual of 875 millimeters ( 35 inches) in the lowest parts in the Nyanza Rift Zone and associated lowlands to just over 1,250 millimeters ( 50 inches) in the highest parts in

## - 2 m

19 yoars out of 20. A well known fact is that the higher the rainfall amounts the greater the reliability in terms of its fall and duration (Fig. 1). These rainfall differentials are well translated into the agricultural activity and returns in different parts of the region; the end-products often rank as causes of out-migration fron Western Kenys to Kisumu town as to other towns and rural parts of Kenya.

Administratively, the region formed Nyanza
Province from 1910 until the definition of new boundaries in 1962. As Fearn suggests, the (defunot) Province derives its geographical unity from the atructiral history of the lake plateau and from the olimatic pattern due to the . influence of Lake Victoria ospecially in the distribution of rainfall. ${ }^{3}$ It is thio unity on which the ooncept of "Kisumu Region" is based in this work since despite subdivision of Nyanza into relatively cultural provinces of Nyanza and Western respectively; Kisumu remains the foous of commercial, industrial and transport system.

A variety in the pedology and cconomic activities of the two dominant othnic groups here, the Nilotic Luo and the Bantu peoples, has been identified by Allan:

fig. 1 mean annual rainfall in the kisumu region


#### Abstract

- 4 - "The Wilotic Luo hava, on the whole, the worst of the land, the poorer and drier. parts, while the Kavirondo Bantu and other Bantu peoples occupy the larger and more fertilo areas. ${ }^{4} 4$

Add to this is overstocking which further limits the carrying capacity of land already experiencing population pressure. It is not surprising, therefore, that preservation of environmental quality is at etake because of human cum-animal numbers and that out-migration becomes the most obvious alternative for the pcople.

The foregoing account helps to portray the backeround to the physical environment and its effects on human activity in the Kisumu Region. Further, it is possible to noto differences in economic activity and life in general between Kisumu town and its immediate


 migration field.Demographic Base

The region around Kisumn is peopled by four main othnic groups, namely, the Nilotic Luo in the three districts of Kisumu, Siaya and South Nyanza; the Bantur, the Kisii and their kincrothers, the Kuria, in Kisii and

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South Nyanza districta respectively; and the Luhya in the three dietricte of Western Province. But it should be realised that although "the Hord 'Avaluhia' (Absluhya) meaning 'these of the same tribe' is propagated as a oommon designation $\hat{\text { ror }}$ all Bantu Kavirondo, this createo the problem of the amorphous term "Abaluhias", 5 and some people classified in this group resent thsir inclusion or evon reference to the group. Hovever, for the purpose of this work and as has occurred in all census counts, we prefer to refer to all of them as luhya. The contiguous peoples belong to the Nilo-Hamitic grpup, the Nandi in Nandi District and the Kipsigis of Kericho District which was part of Nyanza Provinco until 1962 when it was transferred to the Rift Valley Province.

There have been threa population censuces in Kenya, in 2948, 2962 and 1969 respectively. In all these censusea Kisunu town has maintained its fourth position after Nairobi, Nombasa and Nakuru in that order. (Fig. 2). In 1948 Kisumu recorded a population of 10,899 and in 1962 the population had increased to 32,526 , a percentage increase of 113 percent. In the 1.969 census it had a total population of 32,431 as compared with 509,286 for Nairobi, 247,073 for Mombasa and 47,151 for Nakuru. ${ }^{6}$ This represente an intercensal increase of 4.6 percent.
Each dot represents 5,000 persons_-_- .
Towns with o population of over 10,000 . $=0$
Mean onnuo painfoll isohyets
in millimetres_---ー---

| 0 | 50 | 100 | 150 | 290 | 250 | 300 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 0 | 80 | 100 | 150 | 200 Milometres |  |  |

FIG. 2 POPULATION DISTRIBUTION AND RAINFALL IN KENYA

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But with the extension of municipal boundaries Kisumu now encompasses a population of approximately $116,600^{7}$ in an crea of 417 square kilomaters of which 260 sg . km. is land area, ${ }^{8}$ and ranks third in both area and population to only Nairobi and Mombasa. Thus by the United Nations Population Commission definition, Kisumu ranks as a "city" on equal footing with Mombasa but Nairobi as a "bif oity". The town serves a population of 3 to 4 million within its sphere of influence in which densities of population are highest in Bunyore and Maragoli locations of Kakamega District. This region ia ono of the most densely populated parts in East Africa and experiences some of the highest rates of population growth. Also, it is among the most important source-regions of migration in Kenya, migrations which terminate mostly in Nairobi and as far afield as Mombasa. Apart from inforences mado from census data regarding internal migration in the country, the role of Kisumu in the context of national and regional migration has not been explicitly discussed. In the light of this, it was thought necessary to probe into this espeot of migration by carrying out a sample survoy in which the migration process, migration differentials and certain personal attributes of migrants as well as implications of inm migration into Kisumu, are identified and analysed.

The geographical background es well as the demographic base of the Kinumu Region explain environmental hazarde to rural ceonomy. It appears that "Tho considerable out-migration of population which has been noted in the ... regions is thus a response to the attraction of traditional goal areas of labour migration, and to the increasing inability of an area of declining productivity to support the increasing population."9 Out-migration looks a rational response to problems in this environnent but, unless planned development is fostered, it might have more far-reaching repercuscions in the final analssis. Planners underline the key problem in Western Kenye in the terms overpopulation and underdevelopment in the rural areas and a lack of urban employment to absorb the surplus rural popuiation. 10 Overpopulation is intensified, inter alia, by fragmentation of land that is increasingly boooming more scarce for the teeming population; in the lake shores of Lake Victoria the soils are rolatively poor and this factor coupled with unceliable rainfall results in too incufficient yields to feed the rapidly increasing population. Underdevelopment is posed by an apparent stagnant economy and lack of modernisation.

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## NATURE OF THE PROBLEN

## Statement of the Problem

Migration is a complex phenomenon with both temporal and spatial dimensions. In spatial analysis of towns three aspects are often considered, namely, Central Place Theory, Industrial Location Theory and Migration. ${ }^{11}$ Regardine migration Morrill states that Migration is the spatial process which makes possiblo the rodistibution of population. In the carly stages of urbanisation, almost the entire population of the new cities must have migrated from rural life. " ${ }^{12}$ He further considers the pertinent spatial questions to be: How fal do migrants move? What kinds of people move? and To what opportunities do they respond? In the context of the phenomenon these are questions about migration and distance, its seleotivity or migration differentials and its causes. A new town such as Kisumu is therefore a healthy ground in which to carry out a migration study since its increasing population is attributed mainly to in-migration from rural parts of Konya and outside the national boundaries. Its nodality on the Lake Victoria transport system and the lake basin as a whole suggests
its accessibility from the neighbouring states of Tanzania mainland and Uganda. ${ }^{13}$ Problems now posed by migration in Kisumu as in other Kenya towns have thoir foundations in the colonial rule. The colonial bystem propared the ground for lange streams of migrants from rural to urban areas but advanced certain misconceptions about African migrants in the towns. It may be true that "what the colonial period achieved was first to create conditions making for pree movements of people and secondly, to considerably stimulate theso movements. The former it did through estainishing a more permanent situation of law and order; the latter through improvements in transportation by rail, road, sea and air." 14

It is plausible that following pacification
of Africa and Kenya for that matter, a dual economy comprising the traditional and the modern sectors was oreated. The modern sector of the economy was confined to a few urban centras and islands of commercialised farmine in some rural areas; transportation petworks evolved to link these economic core areas; and migrants from poorer rural areas turned to theso modern sector nodes by the transportation networks, particularly rail and road. In Kenya volumes of these migration streams have been illustrated along transportation networks by Ominde. 15

late 18 hh and early $19 t h$ centuries in the maimland but wac experienced earlier in the coastal belt during Arab and Portuguese exploits. For many years African migrants were regarded as temporary inhabitants of town whore they stayed only as long as their labour remained useful. ${ }^{16}$ As such, Africans kept and many still keep abreast of events, caremomies and life in genoral in their rural homea where their families lived intact and made only brief visits there periodically. Since Africans in towns were paid meagre wages and wore hardly provided with housing, most of them were attractod to the peri-urban areas where they bought land cheaply or socured free land on which thay built their houces. This is the more permanent type of migrant enoounterad in most Kenya town in that after settlement thoy were joined by their families and other relatives. Thus arose the "squatter ringe" which characterise Kenya towns and which have resontly become an integral part of Kisumu town (Fig. 3). With independence of Kenya in 2963 the stringent colonial policy was relaxod for Africans and migration into towns became more of an individual decision than before. Proper assessment of rural-urban migration therefore begins after independence because only then was the mechanism of migration, an

individual's decision to migrate due to economic disequilibrium in the country, and the length of migrants' stay in towns least subjected to governmental intervention. Admittedly target workers were found during colonial times but every aspect of migration was guided by governmental policies to which migrants duly responded. Recentily, however, the Kenya Government has been compelled to take drastic decisions in order that the ever inereasing floods of rural-urban migrants might be dammed at their rural sources. These include the Vagrancy Act passed by Parliament in 1972 to send back home job seekers and loiterers, the "Go-Back-to-the-Land" call by the President and, of even greater importance, the spatial Regional Physical Planning alongside the Special Rural Development Programme (SRDP). In urban centres these floods of migrants strain the amenities intended for only those '. already in them. Thus towns contend with such problems as overcrowding as seen in housing, medical and sanitary. facilities as well as schools and traffic flows which. cumulatively result in deterioration of the human environment.

Theoretical framework of the thesis involves the following:

Objectives
Hypotheses


## Dofinition of certain terms

Objectives

Studies of migration in Kenya have been on a national scale with emphasia on rural-urben and ruralrural migration. This aurvey is on a micro-scale and has several objectives. In the first place it is intended to gather information for a study of the characteristics of the town's population in greater depth than before. The second objective is to highlight the effects of migratory behaviour on the resource and infrastruotural base in and around the town by collecting and analysing demographic, economic and other relevant data. Thirdly, an attempt is mads on forvard projoction of the demographic situation vis-amis urban and regional amenitios of the town. Comprehensive physical planning of the Kisumu Region is only posaible with avajlability of denographic data and requirements of inhabitants since planning rolatos to all phases of life. Analysis of the present and future migration plans of migrants and non-migrants, it is hoped, will enhance guided planning of the town by municipal authorities for these two sets of residente. Also, some light has been
cast on adequacy and inadequacy of medical, housing, public transportation, recreation and schools; these facilities and public utilities have been wighted by various personal characteristics of migrants and nonmigrants alike.

## Research Hypotheseg

. The main rescarch hypotheses should not bo confused with the null and altornative hypotheses tested by chi-square analysis. The latter are summarised in Appendix G.

Sinco F. G. Ravenstein formulated his "laws of Migration" in the $1880^{\circ} \mathrm{s}$, there has beon a spate of literature to this effect. The so-called laws are actually hypotheses derived from analogues originated from the physical sciences, and adopted in studies in the social soiences, and geography. In this work the hypotheses tested include migration models advanced by social physicists.

It is hypothesised that an individual's deoision to migrate is guided by his perceptions and intervening opportunities between the place of origin and the place of destination. This involves the mieration
process as well as migration differentials to which a number of variables refer: questions on the migration process which relate to birthplace, home or permanent domicile, length of stay at present residence, number of previous moves, place of previous residence; and questions on attributes of migrants which include ethnic and tribal affiliation, sex, age, economic activity, marital status, education, contact with home area, and enviroumental | conditions.

Besides, two well known social phyoics models, the gravity model and the potential model, are tested. The potential model is intended to test the hypotheses:
a) that migration potential depends on the strength of specifio complementarities from place to place in people's needs and available opportunities, for example employment;
b)
that people move to a place because perceived opportunities and the place itself attracts them more than any other destination entices them; and
that Kisumu is the migration potential for Hestern Kenya irrespective of political
and ethnic boundaries.

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The Gravity Kodel is intended to test hypotheses relating to mass and distance. For our puxpose population is regarded as mass and road distances by the most diroct routes usod to avoid cumbersomeness in computation of cconomic and social distances. As Dodd puts it, "Groups of peoplo interact more as they bocome faster, nearer, larger, and levellod up in aotivity". 18

While these migration modsls and other hypotheses improve understanding of spatial interaction of Kisumu with other places urban and rural alike, they form a rather subsidiary aspect of this atudy. The main focus is on a survey of migrants within Kisumu and whose origins are important in as far as spatial interaction is concerned.

## Definition

It is necessary to define migration and related concepts as generally known and as applied in this work. The International Encyclopodia of Social Sciences shows that migration comea from the Greek word "migare" which means to chango one's residence, but which by current dofinitions means rather to change ons's community. 19 An cxample is cited that a person who moves

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from one home to another in the samo neighbourhood and who therefore retains the same social framework is not deemea a migrant.

In practice boundaries must of necossity be set across which one's movement is considered a migration. The above definition may also be rerined by adding that a migrant changes residence by intending to stay temporarily or permanently at the new destination. Migrants in Kisunu are those who have traversed long distances or moved short distances only into the defined boundaries of the study area. The latter is the area Prom which the samples have been drawn and not the old municipal boundaries or the new municipal boundaries enclosing even ruralised parts. (Fig. 4). Furthermore, migrants have been classified as temporary or permanent: those who intend to leave Kigumu at one time and those expecting; after their migration, to live there for good. The index of classification is continued or loss of contact respectively with a (once) rural home. On the one hand non-migrants are those who were born in and who have no home other than Kisumu town. But those born in Kibumu and who will go back to their rural homes are classified as temporary migrants.

occupational categories, household, age and so on have been outlined in Appendix $C$.

In the neighbouring sub-locations of Kisumu, Kajulu and Kano locations either within or outside the new municipal boundaries a separate category of poople were experienced. These are the comuters who travel daily to and from Kisumu town for work. Most of them ride bicycles and a few go in their own cars or by public buses. Their numbers cannot be ascertained because they were not interviewed as they are not migrant in the right context of the term; even an attempt to interview them would have been futile since all interviews were conducted in the evenings when they were just on their way back home. Inference of this category has been possible by considering the small number of short distance migrants from these sub-locations as against a larger number of those from farther off places such as Nyakach and Seme locations in the same district. A major problem here was the inability of some respondente to indicate that they have been included in the now Kibumu town. This reflects lack of commitment to urban life and sugeests continued contact With home area where the ase-long modes of life still predominate.

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## Prevjoun Research and Literature Review

Migration is one of the most complex, albeit highly popular, aspect of population studics. In the developed as in the developing world mieration studies have incorporated a wide range of economic, social and political phenomena. A short revien of previous rescarch and literature to this end is therefore necessary.

Sweden is an example of a developed country where migration studies have been sophisticated along theoretical as well as empirical lines. Hagerstrand's "Propagation of innovation waves" published in 1952 laid the foundations of theoretical concepts in migration studies in that country. Thus migration has been considered an important element of spatial diffusion which involvea not only the flow of gcods, information and ideas, but also movements of people. This effort oulminated in e symposium on migration within Swoden where several aspects of the phenomenon were examined. 20 Developing countries can gain much from this comprehensive work paiticularly in proper analysis of internal migration. But even more closely related to the present study is the work of Gerger, where the picture of migration to Vastervik is depicted through interviewing migrants. 21 He tested meny hypothesee
regarding migration process, migration differentiale among others. In many ways this study reinforced the author's aspiration to probe into migration to one of the leqst studied urban centres of Kenya.

Don and Hovav also made a case etudy of Or Akiva town in Israel. ${ }^{22}$ The thesis that "a departure of population is a symptom of an absolute or relative decline in the attraction of the town for its inhabitants, whereas voluntary immigration (in-migration) to it should indicate a rise in such attraction" suggests the need to examine the rolos of towns old and new. Kisumu has been dubbed a 'dying town' by many writers without really coneidering the major reasons for this. Perhaps the present study may reveal the truth or otherwise of this argument.

The Indian Sub-continent is also rich in migration studies. Bombay city has experienced two such studies. The first was by Lakdewala and otherg in 1963 who made a survey of work, wages and well-being of urbanites in the eity. ${ }^{23}$ They reached the verdict that analysis of birthplace information can never give a complete picture of population migration and can shed no light on migrants' frequency of movements in a lifetime: thus the volume, sources or airection and nature of migration were considered more important for analysis.

Though an economic survey it was similar in outlook to other migration surveys alroady mentioned. The second study in Bombay city was by the famoun demographer K. C. Zachariah. 24 Its major peculiar feature is consideration of return migration in which age-sex characteristics are weighted with visitors to the city, government servants and other workers on transfer of service, unskilled labourers returning home to cultivate farms, retired workers going home, wives and children of low-income workers in the village and unsuccessful job seckers returning home. Returned migrants heve not been adequately studied in Konya and the present survey takes cognizance of this fact.

Latin American studies on migration are numerous. But mention may be made of those in honterrey and Guatemala city respoctively. H.L. Browning and Friendt examined the social and conomic context of migration to Honterrey city in Mexico. 25 They discussed factors influoncing migrants' choice of Monterrey as their destination, composition of the migratory group, and kinds of contact and forms of assistance given to new migrants in settling upon arrival there. The last item is particularly important in a new town such as Kisumu vihich is situated in the heart of one of tho most
important out-migration regions of Kenya. In Guatemala, Thomas analysed the migration system of Guatemala city. ${ }^{26}$ He focussed on two aspects of the migration system: identifying the generaiing centres of the migrent population, and analysing and explaining the spatial variation in out-migration. Hypotheses were tested about the $v$ relationship between the total population of origing of migration and the migrant population, and between migrastion and highway distances and so on.

Migration has been called the cinderella of population studias in the African continent. The study of modernisation in Sierra Leono by Riddel is one illustrative case. Riddel tests such models as the "bright light" theory of Johnson where it is argued that the African migrant was not acting solely in response to economic forces, but that he (the African migrant) continued to be drewn to the bright lights of the oities despite poor housing or job opportunities, while economic and social improvements in the rural home sxeas seem to have acted as a stimulus to urban migration. ${ }^{27}$ It is necessary to examine the validity of liddel's argument that impravements in the rural areas and provincial towng will not stem the flow, but serve to increase it. Also: Harvey has studied the implications of migration to

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Freetown. ${ }^{28}$ This is a very interesting analysis of the demand posed by migrants on housing and occupation in the urban centre. Iet one of its main heaknesses is the lack of methodological framework on which analysis rests. In the East African environment most migration studies deviate from the foregoing in that they have been based on census data. 29,30,31,32 The only study of migration to a single urban centre is that by Hirst. 33 But since Bukoba is a much smaller town than Kisumu a lot more detail was avoided by analysing only a few demographic variables. This study was of experimental nature and did not integrate other phenomena related with migration. However, the questionnaire used formed an important basis of the present study's questionnaire design particularly because of environmental similarity of the two towns. In Kenya the pioneering work of Ominde besides his numerous publications have detailed analysis of internal migration in both rural-rural and rural-urban contexts. Also, the study of modernisation in Kenya is a useful complement to Ominde's work. ${ }^{34}$ Soja considers rural-urban migration as a significant element in spatial interaction and spatial diffusion by which process modes of modernisation are transferred from urban centres (innovators of socio-economic change) to rural areas.

Another work is by Rempel, Harris and Todaro regarding rural-to-urban labour migration to eight major urban centros of Kenya, namely, Nairobi, Nombasa, Kisumu, Nakuru, Eidoret, Thika, Nanyuki and Nyeri. 35 All these studies have properly explained the situation in Kenya on a national scale; but they have not explicitly studied migrants within a pariicular urban centre in order to put the town in the right hierarchy of spatial interaction.

It has been argued that migration studies should be integrated with other phenomena olosely connected With them. For example Waller and others have studied basic features of planning in the region around Kisumu. ${ }^{36}$ The most important contribution of this work is the classification of regions on demographic and developmental potentials and man's reaction to the environmental constraints. The latter human behaviour has been discussed by Ominde and Odingo in an attempt to translate Waller and others' work into demographic aspects of regional inequalities in Kenya. 37

## Scope and Limitations

## The foregoing review of previous research

and literature on migration has been nevessary in order
to understand the scope and limitations of the present study. It is important to bear in mind that this study is the first of its lind in Kenya and the second in East Afrioa. It differs blightly from the Bukoba survey in that both demographic and non-demographic data were collected. That it is more closely conneoted with the Vastervik study has been alluded to earlier.

The present study may also be regarded as a prelude to yet a more comprehensive research to be carricd out by different scholars representing various disciplines. This team of experts expects to probe into all aspects of migration over a two-year period in the whole area of the new Municipality of Kisumu. 38 This multi-purpose survey will also yield information from those rural areas renown for increasing out-migration in order to analyse the situation of potential and returned migrants as well as non-migrants. Fig. 4 demonetrates the scope and limitations of the present survey on which the foregoing, however, will have to depond.

Fieldwork was spread over a period of one year with systematic deliberations at specific times. The actual data collection was conducted during the April-June period of 1973. It was thought that a midyear burvey would be most appropriate for conclusive
analysis of a whole year's population characteristics. Respondents were only those aged 15 years and above so that children below that age limit were ignored. The main reason for this was that intorviews were intended for heads of families or youth entering the lower age limit of those most prone to migration.

Therefore the main source of deta in this study was responses to the questionnaine. Other soulces were the Kunicipality of Kisumu recodds, library research, census data and other relovant publicationa. Proper gynthesis of all these culminated in producing this work.

## OUTLINE OF CHAPTERS

This section highlights what has been covered in the rest four chapters. It has been necosaary to explain the geographical and demographic backgroundsof Kisumu town and region in order to appreciate this study. Also, the nature of the problem is examined in terms of objectives, hypotheses, dofinition of some concepts, revien of previous research and other relevant literature, and the scope and limitations of the study.

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collection. Data collection techniques adopted in this study are compared and contrasted with others which could be used. Also, sampling design is duscribed in the context of appropriate sampiing mothods and sampling frame from which the sample size was drawn. The whole process of enumeration is then explained.

Methods of analysis are considered aithin the framework of data processing procedure as well as the chi-square $\left(X^{2}\right)$ test used for tesiing certain hypotheses. Chapters III and IV analyse survey data per se. Tabular presentation of results has largely been used to express two forms of analysis. The majority of tables show frequencies of responses as recorded in the survey. But a fow tubles are compiled from chimaquare analysis of some variables. This non-parametric test Was favoured because there was noed to teat some hypotheses based on the observed and expected frequencies. In Chapter III migration differentials have been discussed. These are based on responses to questions about ethnic and tribal affiliation, sex, age, marital status, educational attainment, economic activity and environmental perceptions of migrants. Thus analysis of personal attributes of migrants facilitates understanding of migration selectivity from tho population at risk of

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migration.
Chapter IV concerns the spatial migration system of Kisumu town. Basically this relates to analysis of the migration process which includes, inter alia, birthplaces and homes (permanent domicile) as well as mobility characteristic:of migrants. Emphasis is placed on two poles of spatial mieration system, namely, national and regional scales. A classification of migrants is made in order to consider the place of migration in urban and regional planning of Kisumu.

Chapter. V covers the impact of migration on planning in the metropolitan region of Kisumu. Delimitation of the region on the basis of various indices is discussed. Given that the Kisumu Region is a "downward transitional" region whose developmental burdens are alleviated only by out-migration, it is necessary to examine the role that could be played by spatial physical planning and rural development programmes.

Chapter VI is a summary of and conclusions to the whole thesis. Furthermore, suggestions are made about potential fields of study to explore in future researches which have bearing on the present study. Only that way can such a complex phenomenon as migration be more closely examined.

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Several appendices have been mountod to vivify a few things touched upon in the study. They should bo considered an integral part of the study and should be roferrod to whenever necessary.

REFERENCES


7 Ominde, S.H. - A Multi-Purpose Migration Survey (1973) for Kisumu Town. Research proposal, Population Policy

Research.
8 numphreys Howard-
Future Water and Sererage: and Sons (E.A.), Consulting Engineexs (1972)

9 Ominde, S.H. - Rural Economy in West Kenya. In Ominde, S.H. (ed.) Studien in.

East African Geography and
Development, Nairobi: Heinemann,
p. 220.

10 Kenya, Republic - Nyanza Province Regional Physical of (1970) Dovelopment Plan, Town Planning

Departmont, Ministry of Lands and
Settlement, Nairobi, p. vii.
11 Morrill, R.L. - MKigration and the Spread and (2965)

Growth of Urban Settlement".
Lund Studies in Geography, series $B$,
Human Geograply, No. 26, Lund:
Gleerup, p. 4-6.
12 Ibid
13 Oucho, J.O. - The Geography of the Port of (1972)

Kisumu. Unpublished B.A.
Dissertation, Department of Geography, University of Nairobi。


21 Gerger, T. - "Vastervik: A Migration Study", (1966)

Geografiska Annaler, Vol. 48B, pp. 78-111.

22 Don, Y. \& - "The Measurement of Population Hovav, H. Mobility: A Case Study of an (1972)

Israeli Town", Economic Development and Cultural Chance, Vol. 20, No. 4, pp. 703-721.

23 Lakdawala, D.T. - Work Wages and Well-boing in an et al. (1963) Indian Ketropolis: Economic

Survey of Bambay City, Bombay:
Bombay University Press.
24 Zachariah, K.C. - Bombay Migration Study: A Pilot (1969)

Analysis of Migration to an Asian Metropolis. In Breese, G. (ed.), The City in the Newly Developing Countries: Readings in Urbanism and Urbanisation,

Englewood Cliffs, N.J.: PrenticeHall, pp. 360-375.
25. Browning, H.L. - The Social and Economic Context and Fiendt, W. of Migration to Monterrey, Mexico. (1970)
in Rabinovitz, F.F. and Trueblood, F.M. (eds.) Latin

American Urban Ressearch, Vol. 1: Beverley Hills, California: Sage, pp. 45-70.

26 Thomas, Robert. - "The Migration System of Guatemala No, (1972) City: Spatial in puts", The Professional Geographer, Vol. XXIV, No. 2, 1972, pp. 105-112. NOTE

This is an abridged form of a more detailed study. i.e.

Thomas, Robert - Internal Migration to Guatemala N. City, Guatemala, C. A. Unpublished Ph.D. Dissertation in Geography, The Pennsylvania State University, 1968 (microfilmed).

27 Riddel, J.B. - The Spatial Dynamice of Hodernisation (1970) in Sierra Leone, Evanston: North Western University Press, p. 100.

28 Harvey, M. - "Implications of Migration to Freetown: A Study of the Relationship between Higrants, Housing and Occupation". Civilisation, Vol. 18, 1968, pp. 246-268.

| Claeson, | Novements to Towns in Tanzania - |
| :--- | :--- |
| Claes-Fredrik | tables and comments, Bureau of |
| and Egoro, B. | Resowre Assescment and Land Jee |
| (1971) | Planaing Research Notes, No. Il. |

- Migration and Urban Population a demographic analysis of Population Census Data for Tanzanial, Geografiska Annaler, Vol. 54 B, No. 1, 1972, pp. 1-18.

31 Dak, Othwonh - A Geographical Analysis of the (1968) Distribution of Migrants in Uganda. Unpublished M. A. Thesis, Makerere University College, Kampala.

32 Ominde, s.H. - Op.Cit, 1968.
33 Hirst, M.A. - A Migration Survey of Butoba
(1971) Township, Occasional Paper No. 44, Department of Geography, Makerere University, Kampala.

34 Soja, E.W. - The Geography of Modernisation
(1968)
in Kenva, Syracuse Geographical Seriea, No. 2, Syracuse: Syracuse University Press.

| 35 | Rempel, H. , | Rural-to-Urban Labour Migration: |
| :---: | :---: | :---: |
|  | Harris, J. and | A. Tabulation of Responses to the |
|  | Modaro, M. P. | Questionmaire used in the Migration |
|  | (1970) | Survey, Institute for Development |
|  |  | Studies, University College, <br> Nairobi, Discussion Paper No. 92. |
| 36 | Waller, P.P. | Basic Features of Regional |
|  | et al (1968) | Planning in the Region of Kisumu, |
|  |  | Kenya. Dentsches Institut fur |
|  |  | Entwicklungspolitik, Berlin. |
| 37 | Ominde, S. H. | Demographio Aspeots of Regional |
|  | and Odingo, R.S. | Inequalities in Kenya. Commission |
|  | (1971) | on Regional Aspects of Economic |
|  |  | Development, Brazil. |
| 38 | Ominde, S. H . | Op.Cit., 1973. |

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## CHAPTER I

## MEIHODOLOGY AND DATA COLLECTION

In the previous chapter it has becn stated that the new Municipality of Kisumu is considerably a large area with an interesting dichotomy. (see Fig. 3). On the one hand, there is the urian core which includes the old town boundaries and the former peri-urban areas. The latter comprise stratum $C$ in our samples: Nyalenda, Bandani, Obunga-Kudho, Nairobi and Manyatta and others. On the other hand, there is the adjoining agricultural and predominantly traditional rural areas which have been incorporated into the new town, but which contrast sharply with an urban community in terms of demographic, economic and social characteristics. Large and relatively heterogencous as the town is, it was necessary to adopt the most economical yet appropriate means of eliciting information from the respondents. This Chapter therefore focuses attention on data collection instruments, sampling design, enumeration and methods of analysis, all of which blend into the meihodological framework. But a postsurvey evaluation of the questionnaire has been included in Appendix $B$ in order to assess the viability of the survey.

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## DATA COLLECTION INSTRUMENTS

Harvey argues that data collection amounts to a sot of rulss for construction and filling some sort of data matrix, the latter refers to individuals which may be objectg or events and to various observations made on the attributes of those matrices. ${ }^{1}$ Tochniques of data collection vary from one discipline as from one problem at hand to another and judicious judgement is necessary on the part of the researcher. In this section brief mention is mado of various techniques of collecting primary data in order to justify preference to the one adopted in this survey. The prominent ones are census. counts, mail questionnaires and direot interviowing.

## Census Counte

The 1969 census data would make useful contribution to a survey such as the present one particularly if the objective was a follow up study. While this was not the main objective of the survey, it has been necessary to treat the consus data as the basis of comparing and contrasting some population characteristics. Since this census boundaries of enumeration
areas Uithin Kisunu town have so far been modified. Moreover, such chifts of population as have occurredi in the process of extending the municipal boundaries created furthor complications in utilising the 1969 data. Fig. 4 shows the sample areas covered in the survey. *Samples were drawn from all electoral wards in the town.

## Mail Questionnaire

This involves postage of printed questionnaire to respondents chosen according to a specified design. Respondents have only to read the accompanying instructions, answer the questions and post the questionnaire back to the researcher. Owing to its many demerits and taking into account the low leval oi education of most respondents in the town, it was oxpedient to avoid this techrique of data collcction. Moreover, mail questionnaire have been rarely used in places where direct interviewing would be most fitting in the final analysis. The major demerits which rendered the technique unduccessful were: the difficulty of re-checking contradictory responses to different but largely related questions; inconvenience of the method particularly where spontaneous answors are wanted; the respondent's prerogative to dismegard the sequence of answering questions
and to deliberately avoid some searching questions; tho difficulty of ensuring that all questions in the questionnaire sheet are answered properly; limited or no chance of supplementing the respondent's answer so as to tally with observational data; non-response and so on. ${ }^{2}$ Another shortcoming of this technique is that since a substantial proportion of the town's population as of other towns in the country is either illiterate or semi-literate, they would not atand tho test of rizorous interprotation of questions. This would underw mine keenness that is demanded in answering the questions and would oventually result in non-returns of the questionnaire shactr.

Interviewing

This technique was preferred to the foregoing two. Its commendable attributes include the high probability of eliciting response, minimal non-response since recalls can be made where a prospective respondent is found absent or busj.during the first call, and the advantage of coming to grips with not only the problem ai hand but also the atmosphere within which it is being conducted. In other worda, the technique is adaptable
to the prevailing circumstances. Sometimes urbanites are too suspicious of or too sensitive to interviews especially when these hinge on such personal characteristics as age, sez; aducation, reoord of mobility; previous residence and reasons for migration to the presont residence. However, by adopting a system of scaling rosponses, the author solved the onerous problem for enumerators of rationally ascertaining the validity and reliability of respondents' answers (sec Appondix B). But even interviewing has such veaknesses as interviower bias if he has the option to interview at his own will those encountered in a survey. The other is the tendency for respondents to answer incorrectly in order to dispose of interviewers who might be intefering with some of their undertakings. Conversely, the technique enables enumerators to probe into questions that are vague to respondenis, to check contradictory answers on the spot and to reinterview doubtful cases as well as completing inadequate information. It is for the latter set of reasons that interviewing was considored superior to other data collection instruments. This primary sourco of data was a most vital supplement to secondary sources such as the municipality records, library research and othor publications.

## PRETESTING OF QUESTIONNAIRE AND PILOT STUDIES

Migration surveys reviewed in the previous chapter vary more in objectives than in procedure of approach and methods of analysis. Before the actual survey took off, it.was important to make a few presurvey arrangements which were vital for its success. First, a visit was made to the to:in specifically for testing questions in different parts of the town from which samples were drawn later. This was aimed at assessing respondents' understanding of questions, duration of interviewing people with different attributes and of different backgrounds, reperoussions of some questions which appeared too searching and likely to antagonise respondents and like features. This was followed by a discussion of the findings with the autnoris supervisors and other colleagues in the form of a seminar.

Experience gained in this preteating period in Kisumu revealed certain weakresses which were corrected before the final draft of the questionnaire was made. Also, it marked the end of an imprtant phase in the project thus paving the way for arrangements relating to fieldwork. In several ways pretesting dispelled one major fear, namely, the possibility of the survey failing
to satisfy its main objectives. Another source of fear, was a recent announcement of General Elections in 1974 which would intensify respondents' suspicion of the survey and misinterpretetion of it as a political exercisc. But all chose interviewed at this phase were very co-operative and some even suggested the most effective ways of formulating and putting across certain questions. However, not all of the suggestions influenced corrections of questions. The most popular iten of the questionnaire was "environmental conditions" in which adequacy or inadequacy of certain facilities in the town, among other things, was asked. (see Appendix B).

The second aspect of pre-survey arrangements was pilot studies in the town. Despite the fact that the author knew the town well and only a year ago had conducted a rescarch therein, it was still necessary to make pilot studies. Since the present study differed significantly from the provious one it vas ascumed that knowledge of the town was in itself inadequate, irrelevant in the context of the present study, and likely to yield irrational assumptions about the universe from which the sample was to be drawn. Ressons for pilot studies included the need for the latest information about housing units in the town both on maps and on the ground; an attempt to
ascertain different urban characteristics that would be considered in drawing samples; the need to acquaint myself with Municipal officers and administration of the town at large in order to plan effective strategies for fieldwork; and observations on momontary influx of migrants particularly school pupils and holiday makers either staying in the town or on transit to other destinations.

The second facet of premsurvey arrangements was important in other ways. It produced information about major employers' muster rolls, population data for different wards of the town, distribution and composition of housing units on which the sampling design was conclugively based. Even more important was relevation of demographic realities of the town which had only been postulated hitherto.

It may be seen that this phase was an inevitable prelude to the sampling design which would be impossible without a gample frame. Complete census in the town would have been not only a duplication of the 1969 census, but would have not probed deoper into demographic and other data about migrants.
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## SAMPLING DESSJGN

Tho most objectiva procedurc adoptce in this stuad is probability sampling. This refers to "a formal procedure for selecting one or more semplea from the population in such a manner that each individual or sampling unit has a known chance of appearing in the semplo". ${ }^{3}$ In geography probabilistic spatial sampling is vary important and may take one of the three forms, points, lines (traverses) and areas (quadrats). All sampling mothods wero critically conaidered but only two proved uscful in the present study.

The more commonly used sampling methods include simple random, stratified random, systemetic, cluster and quota. Only stratir̂ied and systematic random sampling techniques ware adopted in tinis study. While the random elenent is common to both, they have certain discrepancies which merit clarification.

Stratified Random Sampling.
The town was divided into three strata,
$A, B$ and $C$ on the basis of house rent as well as occupancy rates of housing units. This will be discussed fully in the next section of this chapter. Thus in
terms of the two indices the threc strata consisted of "high", "medium" and "low" rent rates respectively, and "low", "medium" and "high" density respectively. (see all the plates illustrating different sample areas). This techniquep was favoured because of three reasons. First, its administrative convenience facilitated supervision of sampling units which comprised each strata; in the context of our design these units were dwellings or houging units in different housing estates of the town. Even enumerators found it relatively easy to proceod with enumeration and to make recalls and other follow-up work during the survey. Secondly, otratification often enhances greater precision of estimates of the entire population since it is based on certain realistic differences between the strata. Nigrants of various educational, income and occupational categories were here regarded to occupy correeponding housing units in different strata. Thirdly, the strata manifest differential attributes of the social structure of the population which in turn reflecte differences in demographic variables.


PLATE 1 AN OLD HOUSING UNIT IN MLIMANI ESTATE. This is actually a home as can be explained by such features as the fence, sign post bearing the occupant's name and a single road leading to it.


PLATE 2 AN ULTRA-MODERN HOUSING UNIT IN MLIMANI ESTATE. This house is typical of the low density areas where high class people in the town reside. On the right is the car 'banda' in which the occupant's car is parked.


## Systematic Sampling

Although stiatification nas applied for the ontire town, some further refinement was necessary in stratum $C$ where the sampling units, due to their temporary nature and former peri-urban situation, had never been mapped. Only recently did these estates become part of the municipality but they do not as yet enjoy most of the public utilities and facilities provided by the administrative authority. In fact, they are at best ambidextrous: on the one hand, they claim membership of the municipality by virtue of their inclusion in the new town; on the other, they are under the local authority, the County Council of Kisumu. Gregory shows that "By this (systematic sampling) is meant that items are picked at some regular interval: e.g. every loth item on a list; every 20 th grid square; every 100 th line across a map. " 4 , It may be argued that this technique was merely intended to systematise enumerating the sampling units in strata $C$. Every nth dwelling was enumerated in order to adopt uniform sampling fraction as in mapped parts of strata. $A$ and $B$ where stratified random sampling was applied. In the latter two the housing units to interview were selected on the basis of random numbers, the first 25


PLATE 4 A HOUSING UNIT IN ONDIEK ESTATE OCCUPIED BY A MIDDLE INCOME EARNER. The occupants are in the house but the main door is left open apparently to keep watch on the car parked infront of the house. The house number on top of the door, $\mathrm{R} 2 / 205$ was invaluable for sampling purposes.
per cent being included "without replacement". In cases where there were no records pertaining to the exact number of housing units, rough estimates were mads from which samples wers drawn. It should be emphasised that stratum $C$ has tho highest proportion of Kisumu's population and that it is the least endowed with amenities.

Sampling Frame

In order to draw samples we require some sort of sampling frame which locates the individuals in the population. Sampling frames that could bo used included, inter alia, registers of electors, taxpayere and tenants renting housing units; air photographe; a list of individuals; or housing units.

Since migration is a stochastic process it was decided to confine the sampling frame to those housing estates which had equal probabilities of being rented by all migrants. This meant exclusion of institutional houses owned by schools, companies, statútory bodies, government, the East African Community bodies and those reservod exclusively for municipal employees. In the context of employer typology used in this study these include those housing units exclusively occupied by


#### Abstract

- $\quad 56$ omployees of the Government of Kenya (GK); Municipal Council of Kisumu (MCK); the East African Community institutions (EAC) such as the East African Posts and Telecommunications, the East African Civil Aviation and others; the Teachers Service Commission (TSC) and so on. The thesis advanced here is that since such housing units aro occupied by employed people only, they are biased in the category of migrants. Moreover, little or no data may exist about unemployment and underemploynent especially for heads of households who have to be interviewed. All respondents would be employees from one and the same body who migrated to Kisumu due to hardly different reasons.

Another reason for this choics of sampling frame was that other alternative sampling frames were generally inaccurato: incomplete, subject to duplication, inadequate and out of date. 5 Migratory bahaviour is commonplace and frames referring to three or so years past were likely to suffer from these deficiencies.

Sampling frame adopted therefore consisted of lists of dwellings open to rent by all migrants whether as individuals on as a group of emplcyecs housed in one zono for the convenionce of the renting employer, or body, Thus in some estates a number of houses were




PLATE 5 CHILDREN PLAYING INFRONT OF A HOUSING UNIT AT ONDIEK ESTATE. This suggests inter-family contact as children from different families meet at one point to play.


PLATE 6 SOME HOUSES TYPICAL OF KALOLENT ESTATE IN KISUMU. The appearance of corrugated iron sheets on the roof suggests that this is an old slum. Three gentlemen can be seen busy at woodwork in which they make furniture for sale in order to supplement their meagre incomes.


PLATE 7 ONE OF THE MORE DECENT HOUSES IN KALOLENI ESTATE. The pile of charcoal bags outside the house belongs to the occupant who sells them to supplement his income. On the left is the man's wife who makes local porridge ("Uji") to sell to customers. This way the family meets the requirements of nrhan 7 ifo
found to be rented by the East African Posts and Telecommunications; this is very difforent from the East African Reilyays Corporation quartera at Obaria, Mimani, near Argwings Kodhek Plats intended specifically for rail workers. While sampling frames consisted of housing ostates, sampling units were the housing units in them. An aggregate of 20 housing estates called sample areas in this study, was finally selected from which nome 696 ( 25.0 per cent of the total universe) housing unite were to be covered (Table I.1). Table I. 2 shows the proportion of succesbful intcrvieus (responses) and non-responses (refusals and those found away). The assumption that one dwelling unit was occupied by one head of househoid vas found to be untrue as occupancy rates differed considerably in various parts of the town; households ranged from one nuclear family to several houscholds under one roor. (seo Appendix $C$ for the dofinition of a household).

Sampling unite in strata $A$ and $B$ respectively were drawn from six housing estates each by the holp of random numbers. Thoso in atrata $C$ were drawn after making reconnaisance surveys of each of the cight housing cstates. Both the author as supervisor of the survey and the enumerators visited the estates in quastion together just before the survey atsrted. These two different procedures


PLATE 8 RAILWAY QUARTERS ADJACENT TO MLIMANI AREA IN KISUMU. These are occupied exclusively by the East African Railways Corporation employees. In the immediate background is the lake and the new industrial area. On the far background can be seen the Kisian range and Maseno and Bunyore hills.

# demonstrato the diversity of the sampling units and demographic differences expected from them. Yet housing unita constitutad the most appropisate of all other sampling frames that could be used. 

## Samplo Size

Sample size was bascd on the principle of uniform sumpling fraction for all the sampling unitg. From a universe of 2,779 a total sample gize of 696 (25.1 per cent) nas drawn out of which 568 ( 81.6 per cont) succesoful interviews and only 128 ( 18.4 per cent) nonresponses (refusals and those found away) were reported.

One striking feature is the negligible variation of sampling fractions from the mean sampling fraction for all samples (bee Table I.l), The main advantage of this principle is elimination of such errors as are oxperienced in fluctuations in samples with variaijle sampline fractions. Also, it kocps constant the proportion of sampled population for ell the sampling units thereby makjuE tho samples representative of thein respective universe.

The samples so drawn are used to infer attributes of the entire universe. In a pioneering study
of this nature sampling design is an important basis for similar or slightly modified surveys at some future date.

## ENUMERATION

Enumeration was a vital stage subsequent to the sempling design. thile this is fully explained in Appendix $C$ brief mention may be made of enumesatore and the sequence of enumeration.

## Enumeratora

Enumerators were selected, trained and equipped with kit neoessary for the survey work immediately before the actual survey begar. In all, six male enumerators were selected on the basis of several requirom ments: proper knowledge of Kisumu town, ability to spoak Luo, Swahili and English Languages fluently and ability to find accommedation from friends or relatives during the survey period. Luo is the language of the Luo, the predominant tribal group in the town. Swahili is generally preferred by non-Luo speakers particularly the Bantu group as well as little educated foreign othnic groups especiaily the Asian or Arab shop-koepers and businessmen.

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English is spoken not only by the foregoing, but also by foreigners professed in neither Luo nor Swahili. Questionnaire was, of necessity, translated into the three languagese Soo Appendices $B$ and $C$ for the questionnaire design and for definition of some terms. Enumerators were instructed to ask respondents to choose the language in which to be interviewod. But for consistency sake all responses were marked in the English translation of the questionnaire.

Training enumerators lasted for a week after which period a couple of days were spent in conducting pilot interviews in different housing estates in the town. This was confined to the sampling units not included in the sample so as to avoid duplication when the real survey got under way. After all this onumerators met with the supervisor to discuss their findings and to agree on certain aspects of uniform coverage of enumeration. No spectacular problems were encountered at this stage and within a much shorter period than originally scheduled the enumerators had grasped the necessary instructions. The interviewer's manmal used for training enumerators is given in Appendix C.

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## Sequence of Enumeration

The internal structure of Kisumu town, like that of all other towns, varies from urban residential blights such as Kaloleni and Arab Manyatta to the new and ultra-modern housing estates such as Tom Mooya. It Would have been unfair to subject enumerators to one such conditions throughout the suxvay; enumerators working in urban blights would naturally lack enthusiasm while those in better parts would be overmenthusiastic in their work. These two extremes would result in a lot of enumeration bias besides other problems. For this reason as for others all enumesators simultaneously worked from one sample arca to the other each visiting only specified nousing units. Thus enumerators were able to discuss general and particular problems experienced in each sample area in order to find a meaningful solution. Each morning completed forms were handed in to the supervisor for his perusal. Sometimes such inadequacies as careless work, incomplete coverage and inconsistency were datected and enumerator(s) in question requested to reinterview. It was interesting to note that withina few weeks of the survey enumerators had developed certain crude demographic ideas about the town. If cnumerators had been confined to specific
sample area(s), their findings would be axiomatically accepted even though they might have cheated. When interviews were in progress the supervisor went round to check on whether the survey vas being done properly and to help in solving problems beyond the scope of onumerators.

Apart from Mlimani housing estate where the highest number of non-respanse was reported all other nample areas had a good standard of response to the questionnaire. Another slightly problematic area was Obunga-Kudho where some respondents siated they had very remote connections with the municipal administration. Such problems, however, are characteristio of all social surveys. The negligible proportion of refusala (7.5 per cent of total) reflects the dependability of data collocted for analysis (see Table I.2). Enumeration was generally smooth and no strange incidents were roported by either enumerators or respondents.

## MEIHODS OF AHALYSIS

This section considers data processing procedure as well as quantitative mothods of analysis used in reaching objective conclusions. It highlights
the method of approach adopted after applying methodology of data collection and following succesaful storage of data.

## Data Frocessing

Three etages are involved in data processing, namely, editing, coding and tabulation. ${ }^{6}$ It should be pointed out at the outset that all these stages were done mechanically by the author in the light of too high expenses quoted for coding, punching and computerisation. Though this was a laborious task hardly devoid of mistakes inherent in analysis, it was the only alternative to the foregoing. Moreover, familiarity with characteristics of the data enabled the author to corract mistakes which would have been merely punched by card punchers who knew nothing of these characteristics.

## Editing.

It is stated in Appendix $C$ that enumerators met the supervisor at 9.00 a.m. every morning to return completed questionnaires and to discuss certain data characteristics. In the process quick editing of data

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rosulted. Even after the departure of enumerators each day the supervisor made further editing of questionnaire as to their completeness, accuracy and uniformity. As has been pointed out before doubtful cases were referred to enumerator $(a)$ concerned.

Coding

The concept of coding is largely a process of translating word classifications into numbers so that it is feasible to transfer information on the questionnaires to a card or other record for tabulation. 7 In this study since the whole data processing was done mechanically coding involved transferring information to records rather than cards. Two separate systems of coding were adopted. In the firgt place questions were precoded by indicating all the possible responsea next to the corresponding question. This facilitated fairly quick interviews. Later when the survey had been completed another coding procedure was used in order to identify variables that were used in tabulations and other analyses. Thus it is important to differentiate between the two systems of coding used in this study. This stage of data processing roquired much keenness and concentration so as to check


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- 69: - consistency and proper interpretation of questions by respondents.


## Tabulaitions

It was necessary to execute some judgement in the number of tabulations. Naturally tables which wers lastly adopted were selected from an immonse assemblage of simple and cross tabulations of a total of 52 variables. Whereas most of the tables present the results of the survey and are basically doscriptive, a few of them are highly analytical of these results.

The first set of tabulations show frequencies and percentages of single and crossmtabulated variables. The second set are propared from computations of chisquare ( $X^{2}$ ) test. Both the electronic FACIT desk calculator and the Friden 1152 Programmable Printing calculator were ued for compiling the tablea.

Quantitative Methods

Data in this study have been analysed by statistical methods both descriptive and inferential. The method of analysis therefore differs significantly

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from the predominantly intuitive approach which has characterised social researches for many years in Kenya. The form of inferential statistios used in this study is chi-square $\left(X^{2}\right)$, one of the non-parametric statistics. 8

## Chimbquaro Test and Hypotheses Testing

Chi-square test ie generally used to test hypothoses involving either one-simple test or two independent semples for K indepondent variables. Siogel states that the "technique is of the goodness-of-fit type in that it may be used to test whether a significant difference exists between an observed number and an expected number based on the null hypothesis". 9 Therefore the test has been widely used in migration surveys where the observed samples are used to compute expected cases in order to teat some hypotheses.

Procedure of computing $X^{2}$ test involves four major stagos: stating the null hypothesis (Ho) as well as the alternative hypothesis (HI); choosing appropriate level(s) of significance ( $x$ ) at which hypotheses are tested; stating the degrees of freedom (d.f. or $v$ ); and making a conclusion on the result got from the calculated $X^{2}$ as compared to probability $X^{2}$ estimates at different levels of significance. The formal way of

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conclusion must be understood: the Ho may not be rejected (or accepted) when the calculated $X^{2}$ is equal to or less than the probability $X^{2}$ at a specified leval of significance and may be rejocted (or Hl accepted) when the calculated $X^{2}$ is the greater of the two.

Hypotheses in the present study have been tested at both .05 ( 5 per cont) and .01 (1 per cent) levels of significance. ${ }^{10,11}$ This means that decisions are mado with 95 per cent and 99 per cent levels of confidence respectively. These hypotheses reinforce conclusions mado on the migration process as well as migration differentials. Only results found to be significant at the stated levels have been included.

In summary, the foregoing section explains the methodological groundwork on which the whole research programme rests. Every stage in data collection, sampling design, enumeration and methods of analysis depends on sound judgement from several alternatives. Evaluation of the questionnaire after completion of the survey is equally important. It analyses the validity as well as viability of the questionnaire schedule as a basis of the research findings. This can be seen in Appendix B.

## REFERENCES




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- CMMpmer III
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## BASIC MIGRATION DIFFERENTIALS

Introductory Remarks to Survey Daia

The characteristics of migrants in Kisumu and the spatial migration system of the town may be best explained by findings of the survey. It was necessary to exercise carefil selection of tables from an immenco assemblage of all tables which were initially compiled. Two forms of tables may be identified. The first express responses of informants in both absolute (numbers) and relative (percentage) frequencies. These simple and crosstabulations have enhanced presentation of data collected in the survey. The second form of tables are analytical in that they are compiled from chimsquare analyses or other statistical computations which are secondary to the foregoing. Cognisance has been taken of the requirements that in chi-square test expocted frequencies in each cell should not be too small, and that no cell should have an expected frequency of less than one. ${ }^{1}$ Thus expected values less than onc have been treated as zero in order to avoid inflation that would occur in calculated chisquare values. Certain hypothases connected with various aspects of the study are tested and results analysed.

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The next two chapters focus on analysis of the survey data. Frequent reference is made to relevant tables which have been appended at the end of the work so as to racilitate the flow of analysin in the text (see Appendix A). Also, an attempt is made to classify migrants in the town in order to throw some light on implications of migration and migrants on the planuing process in and around Kisumu.

In this chaptex migration selectivity is considered. Factors involved in this are also known as migration differentials. These consist of a host of migrants' attributes which are involved in the selective nature of migration. People of different socio-economic status and imbued with certain aspirations have different propensities to migrate.

## ETHRIC STRUCTURE OF THE POPULATION

Ethnic Groups

Like any other major towns in Kenya Kisumu is inhabited by four main ethnic groups, namely, Africans, Asians, Arabs and Europeans. That their migration into the town was influenced by various factors explains the

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futility of attempting to onlist all the factors. But it may be said that foreigners had distinct reasons from the Africans: the Europeans initially came as miesionaries or as colonial servants, Asians and Arabs as traders or shopkeopers; Africans were motivated by a continuum of repellent conditions in the rural areas and "factors of attraction" in the towns. It is not surprising therefore that most of analysis in this chapter is attachod to this ethnic group. Table II. 1 shows that Africans are by far the majority. In fact the pattern of ethnic composition of Kisunu population agroes well with the 1969 census count. ${ }^{2}$ Of these ethnic groups the most suscipious in tho course of interviows were tho Asians. For example, some argued that they could accopt intorviewn only if dirontives had come from their roligious loaders. The intricacy of such formalities induced onumerators to cancel intervieving subjects who had such excuses. These were recorded as refuals.

Tribal Affiliation

Tribal groups interviewed represent the major ethno-Linguistic groups of Kenya tribes, the Nilotics, Bantus and Nilo-Hamites (see Fige 5). The absence in the


FIG.5 TRIBAL UNITS AND NAMES W KENYA.

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sample of tribal groups from the Coast or North-Eastern Provinces can be noticed. This might be attributed to the dipectional bias of Coagt migrante on Nombasaiand to the tendency of North-Eastern migrants to confine themselves within their province. But the absence of migrants from the two provinces renders merely speculative our argument to this end. Table II. 2 explains the composition of tribal groups interviewod in the survey, Expectedly the Luos arc by far the predominant tribal group, a feature that was roported in all sample areas. They are followed, albeit not closely, by their neighbours, the Luhya. These two tribal groups are generally more migratory than all other Kenya tribos excopting the Kikuyu and are to be found in all the main urban centres of Kenya. That the Kikuyu rank third te othos tribal groups closer to Kisumu is not therefore a surprising feature. The Kisii aro relativcly sodontary in their fertile area where favourable rainfall and soil fertility enhance intensive farming in cash crops, coffee, pyrethrum and others. Kalenjin peoples are also relatively sedentary and aince the highest migration intensities are towards conmercial farming areas and Nairobi, only a small number would be expected in Kisumu town. The Kamba are the most distant in terms of geographic situation of Kisumu and the Kamba districts of Machakos and Kitui.

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Perhaps environmental hostility particularly in"the latter has intensified their migratory behaviour; Kitui oxperiences unreiiable rainiajl and persistent famine which make it ecologically best suited to pastoralism.

Uganda and Tanzania tribes were also encountered in the sample. The former vere recent migrants into the town which might have been their nearest and most direct destination of refuge following the unhappy incidents recently experienced in Uganda. Apparently, accessibility of Kisunu to all the Lake Victoria basin tribal groups makes it an important destination of inter-territorial migration which is expected to increase with the envisaged development of the town in future. Given a peaceful political comexistence it seems that a town strategically situatod along neighbouring countries attracts migrants irrespective of territorial boundaries. For Kisumu coexistence may be seen in its role as a port which is under an important organ of the East African Community, the East African Railways Corporation. ${ }^{3}$

## MIGRATION DIFFERENTIALS

Sex

This is an important misration differential。 Although it is a common demographic feature that sex ratio favours males in urban populations, it may be fallacious to rely on this argumont particularly when respondents are chosen according to predatermined dosign. For example, in this study four kinds of persons were likely to be intervievoa at any ono time: hoad of family, wife only, huskand and wife, and others not so classified. In many cases heads of families, who often turned out to be males, woro interviewed. Therefore the sex bias of respondents is not surprising and cannot be wholly attributed to migraiion colectivity. Proper analysie of sex ratio is deferred until We discuss it in the context of household data in e later section.

Table III.l explaing aex composition of respondents in the town. Out of 568 regpondents 75.0 per cent consisted of males and only 25.0 per cent were females. This pattenn of male dominance appears in not only individual sample areas but also in the three strata, high, modium and low income groups, which explain the socioeconomic differentials of respondents.

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\begin{aligned}
& \text { Age } \\
& \hline \text { Agn }
\end{aligned}
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Cross-tabulation of age and sex results in even more farmeaching understanding of respondents in the town. Unlike sex, age is difificult to use an a criterion for considering certain discrepancies in the population. Van do Walle has considered the causes of orror and suggested improvements that oould be mado in age otatistics. According to him age statistica may be improved by either atching agca recordea by conventional consue methods with birth registration where data is available or by ranking all inhabitants by age in the context of a person boing "older than X" or "younger than ri". 4 But these methods have certajn shortcomings. In a country such as Kenya whare birth registration has not evolved satisfactorily the first method must be ruled out in the meantime. Data on birth recistration is otill scarce and highly sporadic. The second method might ongender disagreement among inhabitants as they would resent reference to their children as base years against which others' ages are considered. Therefore, enumerators had to estimate respondents' ages, a feat wrought with difficulties but most appropriate in the circumstances (see Appendix D).

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Conventional age reporting in five-year intervals has been adopted in this work. Age and sex distribution of respondents in Kisumu is shown in Fig. 6 and Table III.2. A few interesting features may bo noted. The first is the absence of fomales aged 65 or more years in the sample. This may bo due to the fact that old women often prefer to return home earlier after retirement froin paid employment or it may be due to historical bias in the employment of maios. Again, it seems more difficult to estimate female ages as natal complications sometimes cause physiological weaknesses which may be taken for old age. Thus a wrong age estimate may be made by enumerators and respondents alike as they attempt to compromise between two different estimates. In his Bombay migration study, : Zachariah found about 43 per cent of migrants aged botween 20 and 35 years. 5 But in the prosent survey about 63 per cent of respondents were agod between 20 and 34 years. It soems true that migration intensity reaches a peak in this age brackot but decreases with age. ${ }^{6}$ Migration intensity and age-group gave a correlation coefficient of -0.78 in the present study.

Ominde in studying migration of the economically active age group made the following observation about certain characteristics of male and female migrants:

FIG. 6 HISTOGRAM AND FREQUENCY DISTRIBUTION CURVE FOR RESPONDENTS BY AGE-GROUP



#### Abstract

"But whereas the association of the migration of the 15-44 year age group with the main population centros as supplying areas and the economic growth pointa of the country underlines the economic factor, the importance of the female element in the age-group sugeests that sooial factors may be of great importance. ${ }^{7}$

The officacy of this argument will be seen when discussing age-sex pyramids for different parts of Kisumu town in the next chapter. Suffice it to say, higher probabilities of male migration is reflected in their presence in all age groups. Fig. 6 also shows some anomalies in age distribution of respondents. It can be seen that the influence of in-migration is demonstrated at the age of 20 years with much concentration in the 20-30 age bracket.


Besides, chi-square analysis was made to test the following hypothesis:

Ho: Thoro is no significant difference in age distribution between male and female respondents.

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H1:
There is significent difference in age distribution between mals and femalo respondents.

As the result was significant at both 5 per cent and 1 per cent levels, Hl was accepted (Table III. 2a). Whereas male respondents were represented in all age eroups female ones were clearly absent at age 65 or moxe years.

Both sex and age have been frequently crossclassified with several variables. In the first place the two attributes were reported by most respondente, sex being obvious. Secondly, they facilitated consistent analysis of other variables with which they were crossclassiried.

Marital Status

This has an important influence in ruralurban migration. In many African societies marital status results in an individual's change of community membership, expansion of family relations, initiation into the status of responsibility and so on.

Nigrants to a town may be in different
combinations. The head of the family may move first while the rest of family members remain in the rural village. Sometimes the whole family may move together
especially when optimistic of easy establishment in the town of migration. These may be called split and simultaneous migration respectively. Split migration seems a common feature of the developing countries since it is necessary that one person, generally the head, ventures into the unknown before being joined by others. When the whole family migrates all at once they may face unhappy experience at the destination. Simultaneous migration may plunge a large family into insurmountable problems in the initial stages of establishment at the new residence. ${ }^{8}$ Table III. 3 shows the marital status of the sample. Married persons were the dominant category with 73.7 per cent of total males and 72.5 per cent females reported in this category. Of the 417 married persons 291 (69.8 per cent) had their spouse living with them in Kisumu and 126 ( 30.2 per cent) elsewhere. This explains the importance of simultaneous migration into the town. Another interesting observation explained by Table III. 3 is that 12 out of 18 widowed respondents were females. This suggests the usual higher death rates for males than females or the readiness of females to reveal their widowhood explains the rarity of this phenomenon among them particularly the Africans.

In Table III. 3 a it can be seen that the result
of chi-square analysis is highly significant at both 5 per cent and 1 per cent levels of significance. The. hypothesis testea $\mathfrak{\text { was: }}$

Ho: There is no oignifficant difference in marital status of the two soxes.

Hl: There is significant difference in marital status of the two sexes.

The foregoing arguments are posed to qualify
the Ho which is rojeoted on the basis of the result; in effect this means acceptance of Hl above. It was generally found that most of the long distance migrants lived together with their spouse in the town whereas shortdistance migrants had their spouse at their permanent homes which they frequently visited.

The younger migrants preferred staying together with their spouse in Kisumu. The older ones, however, left their spouse at home where they made periodic visits.

## Educational Attainment

It has been realised that education is a most important index of migration selectivity. The existing educational system inherited from the colonial system is geared toward urban employment rather than rural economy.

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Considering migration as a capital transfer Byerjee argues that:
"Because of the emphasis on education as a criterion for modern sector jobs, even of low skill requiremento, the private returns to migration are likoly to be higher than social roturns, resulting in overinvestment in education and further out-migration from agriculture". 9

This non-demographic parameter may be considered the fulcrum on which the propensity to migrate rests. The literacy situation in Kisumli does not differ significantly from that of other towns in the devoloping. world. But the solective nature of the sample conceals this fact (see Table IV.1). Some 90.8 per cent of total respondents nore literato compared with only 9.2 per cent illiteratos. The small proportion of those currently in school is because though the lover age limit was 15 years, only a small number could be expected to feature as heads of households. An interesting phenomenon is the increasing tendency for secondary school pupils to live on their own in houses rented for them by parents, thus qualifying as heads of households. Age wise the relationship between illiterate and educated respondents produced a corrolation

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coefficient of only +0.28 , that between primary and secondary education was t. 60. In torms of age - sex. structure correlation coeffíiciente of +0.43 for malea and +0.31 for femaies were found.

Table IV. 2 shows intercsting features. $\Lambda$ negligible proportion of respondents failed to reveal the highest classes reached at school. But the dominance of Uppor Primary graduates ( 42.6 per cent) suggeste that most respondents attained primary education and above. ,

Educational attainment wes cross-classified with sox and age Eroup. Table IV. 3 demonstrates that the highest proportion of those who did not state their classes or were illiterate was reported in the $45-49$ age group. For lower primary it was the $30-34$ age group but for upper primary, secondary upto ' $O$ ' level and 'A' level or above it was the 25-29 age group. The prominence of the 25-29 age group appears in not only educational attainment but also the peak of migration intensity. Sinco this is the most educated age group and granted that education enhances chances of securing employment in urban areas, the dominance of this group is only to be expected. The following hypothesis was tested:

Ho: $\quad$| Eduaational attainment does not |
| :--- |
| differ significantly in all age |
|  |
| groups. |

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Hl: Educational attainmont differs significantly in all ago groups.

On the basis of chi-square test the result was found to be significant at both 5 per cent and 1 per cent levels of significance (see Table IV. 3a). Thus Hl was accepted.

Further refinement of this variable was made by considering males and females separately. In the case of male respondents a few observations may be made. First, the 45-49 age group had the highest proportions of illiterates and thoso who failed to disclose their educational standards. Second, the 30-34 age group had the highest proportion of lower primary graduates. Upper primary and secondary upto 'A' level and above had this score in the $25-29$ age group (see Table IV.4). For the female respondents these features are dopicted by Table IV.5. The highest proportions in the "non and not stated" category and lower primary education were experienced in the $25-29$ and $30-34$ age groups respectively. The dominance of the 25-29 age group again occurred in both Upper and Secondary upto '0' level. The only female With 'A' level or more educational standard was reported in the 20-24 age group. Two important features of edirertion as an index of migration differential may be identified.

In the firbt place educational standards decrease as ages of respondents increase. It is true that some sixty or so years ago when the present post- 60 yearsolds were born education was basically intended to. eradicate illiteracy and no more. This elementary education prepared ready hands for missionary work and unokilled workers. Demand for labour in urban centres was only minimal and even when it gathered momentum migratory behaviour had not ovolved atrongly among rural villagers, Migration intensity reflected in the young migratory age groups may be considered a consequence of.improved educational standards. The acoond feature is the lor concational standards of females. This may be attribured mainly to negative ideas attached to girls' education and partly to the increasing rates of drop-outs due to pregnancy or early marriages. It was also observed that there is a clear cleavage in educational standards between migrants and non-migrants in Kisumu although this has not been brought out in any table. Migrants are generally better oducated qualitatively as well as quantitatively. Similar findings have been made by other scholars. 10,11
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Eoonomic Activity

Literature on migration studics strongly underline the dominance of economic motives among other migration differentials. In any model of migration economic factors are spelled out and other residuals considered rather amorphously. In an expectational model of migration suggested by Fabricant, for instance, a labour market approach is adoptod. . Sho identifies three options open to a potential migrant, namely moving from. $i$ to $j$, moving elsowhere and staying in $i$ (not moving at all). ${ }^{12}$ This is consistent with the argument that the direction of migration is influenced by opportunities in the intended area of in-migration. In rural-urban migration process these opportunities aro well explained by economic advantage in urban areas particularly employment opportunities.

It is not therefore surprising that more space was given to economic activity than any other item in the questionnaire. One way of ascertaining the importance of economic activity was to draw information about occupational characteristics of respondente before and after migration to Kisumu. Table V.l reveals some important facts. Notable is the fact that there were

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only 198 employees before as compared with 340 after migration into the town. Conversely, thero were 180 students before end only 40 after migration. This suggesta that on migrating to the town a large proportion of atudents had changed their status to employees. A decrease in the numbers of 'non' also atipulates likely change of status. Proportions of employees and own account woxkera increased whereas that of other categories decreased; the former two gained from the latter. Tho hypothesis tested was:

Ho: Respondents maintained the same economic status before as after migration. Hl: Respondents changed economic status after migration.

The chi-square resuli was highly significant ait both 5 per cent and 1 per cent levels of significance which meant that Hl was accepted (Table V.la).

Occupational category of respondents by sex can be seen in Fig. 7. On the whole professionals are dominant ( 20.7 per cent of the total). Those classified as 'other' are next; this category includes students and housewives not seeking employment. But of al. males

FIG. 7 OCCUPATIONAL CATEGORY OF RESPONDENTS BY SEX


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21.1 per cent are clerical. The complexity of this group and its inclusion of predominantly the male sex. suffice to explain this. Surprisingly, however, agriculture/fishing category had only 0.7 per cent of all males compared with 1.4 per cent females. The highest proportion of females were classified as 'other' for reasons which have been given before. Secretarial work by females becomes clear in the clerical category which accounted for 12.7 per cent of all females. The number of respondents roported as unemployed is suspiciously small perhaps because some respondents related this category to the Vagrancy Lak on the basis of which they might be repatriated back home. But it could also be attributed to the ambiguity in the term unemployment since no sharp boundaries could be identified by respondents and enumerators alike in the related terms "underemployment" or "unemployable", for instance. ${ }^{13}$ As Gutkind states the unemployed represent a highly diverse community which includes school drop-outs and wholly unskillad people who form the bulk of the group. ${ }^{14}$ This diversity in itsolf renders difficult the classification and analysis of unomployed persons. Bjeren quotes Gutkind's classification of urban unemployeds as school-leavers actively seeking jobs but still unsuccessful; school-leavers

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unwilling to accept just any type of employment (the selective job seekers); juveniles too young to be fit for heavy manual work; young boys who have dropped out of school for financial reasong; rural (under) unemployeds; who seasonally swell the pool of existing urban unemployeds; those unemployed as a result of technical reasons (lack of technical know-how or automation); and those unable or unwilling to hold down regulay empioyment for long. 15 Thus competition in employment becomes keen as the type of migrants hecomes more diversified. Obviously, the list could be multiplied depending on what one wishes to emphasize. Table V. 2 shows that the hypothesis that there is no significant difference in occupational category between males and females was rejected at 5 per cent and 1 per cent levels of signifficance. Occupational category differed significantly between the two sexes.

Ocoupational category of reapondents by age group was also analysed. (Table V.3). Apart from the "other' category which is represented in all age groups a striking feature is the expected absence of the economically inactive age bracket, 64 years and above. Professionals are dominated by the $25-29$ age group with the older age groups not well represented. As most professionals
had undergone further education or training after completion of formal schooling the dominance of this age group is explained by their high educational standards. The same age-group leads the clerical workers: secretaries, clerks or clerical officers, personnel officers as well. as accountants must of necessity attain ressonable standards of education. It is interesting to note that craftsmen are prominent in the $30-34$ age group; this is an occupation requiring relatively less education but more energy and exporience. Salesmanship is even less demanding in education but requires at the same time older and more experienced workers; hence the prominence of the 40-44 age group. Also, it can be done by all age-groups since it is diverse and commonplace especially after retirement. Agriculture"/fishing was well spread in five different age groups. This is one of the regular prenccupations for old adults as is reflected by the predominance of those aged 55-59 years. It was reported in the former peri-urban areas of Nyalenda, Manyatta, Bandani and Obunga-Kudho where inhabitants perpetuate the age - old traditional forms of agriculture with a few turning to fishing. Domestic workers are dominated by the most migrant age group, 25-29 years, and is confinod within the 20-49 age bracket. Of the

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manual workers the dominance of those aged $30-34$ years is again noticeable. It is also one of the catogories well distributed in all but one economically active age groups. The category callod 'other' has been touched upon before. Interesting is the fact that unemployment is mast experienced in 20-29 age bracket, the most migratory group. Since characteristics of this Eroup have been alluded to earlier it is not necessary that they be repeated.

Spatial consideration of the town reveals some interesting features. It was found that professional and clerical categories were often encountered in sample areas of strata $A$ and $B$ and in Nairobi area of stratum C. In socio-economic terms residents of these areas hold "responsible" jobs wherever employed and are also the best educated of all respondents. "Other" as a category was well distributed in the town as students and hougewives who dominate it can reside in any area with heads of families of all socio-economic status. Unemployeds showed more or less similar charactoristics as the foregoing. The rest of the occupational categories were found in sample areas of Stratum $C$ in which resided people with relatively low education and

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unskilled jobs. Thus it is a common feature to find these residents supplementing their meagre incomes with late evening personal work at their residence (see Plata 6)

A probe was further made into unemployment with particular interest in job seekers. Only 2.3 per cent of all respondents or 2.4 per cent of migrants stated that they had been seeking employment in the town. Table V. 4 refines the information further: 46.1 per cent of total had sought employment for a period of l-ll months and 30.8 per cent had done $s o$ for a year or more. But the table does not clearly illustrate the real situation in the town although the author is woll aware that Kisumu town is nover a popular ground with job seekers. It may be argued that since head offices of all government ministries as of other chief employers are in Nairobi or clscwhere job seekers may be employed in the latter thence traneferred to provincial or regional offices as in Kisumu.

Table V. 5 has therefore been included to emphasize this point, The dominance of the private sector among other chief employers explains the growing importance of the private sector in Kisumu as in other Kenya towns. Another interesting observation is that of own account workers who rank second. This diverse group
is expected to swell with the anticipated business allocation among Africans in the town following cancellation of non-citizen traders' licences. The ascendancy of the private sector over other chief employers may have been exaggerated by oxclusion of residents of housing estates exclusively proserved for employees of specific employing bodies. Such exclusion has been explained in Chapter II as affecting employees of the Municipal Council of Kisumu, the East African Community for instance the Railways Corporation, Teachers Service Commission and Goverument employees resident in institutional housing units. All the omploying bodies shown in Tablo V. 6 accounted for 76.6 per cent of the total sample.

Sinco economic motives have beon underlined as the most outstanding migration differential it has been necessary to consider migrants and non-migrants in the contaxt of chicf employers in Kisumu. The table mentioned explains some striking features. Of the 435 employees 418 or 86.1 per cent were migrants. compared with only 17 or 3.9 per cent non-migrants. Migrants, endowed with better education which in turn reinforces their propensity to migrate, have greater advantages over non-migrants when competing for employ-
ment. But it is interesting that the non-migrant group is dominated by own account workers who account for more than half of the Eroup. This may be aitributed to several factors, the most obvious being proper knowledge of the town, in both temporal and spatial dimension, which onhances a nonmigrant's involvement in diverse forms of selfamploymont including illicit occupations. Migrants' atay in the town depends laxgely on personal initiative which only assumes illicit forms as the last resort to unsuccessful job socking or accidental loss of any occupation. Finally, the dominance of private sector employees in the case of migrants is only to be expected as has becn alluded to before. However, there is insignificant disorepancy between migrant and nonmigrant employces of tho private sector.

Income levols of respondents vere also
analysed. In Fig. 8 the structure of income levela may be clearly seen. Of the 424 respondents to this question 18.6 per cent were in the shillings 700-999 - 300-399 income group. The percentage of those with monthly income above 1,000 shillings was 20.5. Thus four-fifths of the respondents fall in income groups below that mark. This finding does not differ much from another report which atated those earning 1,000 ghillings or more to be

FIG. 8 INCOME LEVELS OF RESPONDENTS


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14 per cent. ${ }^{16}$ Perhaps the present survey's findings are increased by the incomes of own account workers most of whom were proud to state that they had higher incomes than most employees. The same pattern obsorved in the sample areas in the case of occupational categeries wau also noted for incomes: the better educated people had better paying jobs. This is demonstrated by Table V.7. More than half of respondente with incomes of 2,000 shillings or more were in Stratum $A$, followed by Stratum C with a sizable proportion of own account workers. Conversely, more than threc-quarters of those with 200-299 ghillings were reported in Stratum C. In the case of the lower midale income group, namely shillings 100-999 more than half were in Stratum $B$. Careful study of the table reveals very important information.

To summarise the immense information about economic activity Table V. 8 was compiled. Male dominance in employment is an expected feature as is female dominance in those classified as 'cther'. The hypothesis tested was:

Ho: Employment situation in the town has no sex bias.
$\mathrm{HI}:$
Employment situation in the
town has sex bias.

Since the calculated chi-square was aignificant at the stated levels of significant H 1 was accepted (Table V.8a). Age-sex specific activity rate, $r$, was also computed. It is given by the following formula:

$$
\mathbf{r}=\frac{P_{e}}{P t} K
$$

where, Pe is the number of economically active persons in the specified category of the population, Pt is the total number of persons in the same category, and $K$ is a constant in this work 100.17

Household data was used as it was more meaningful than the respondents where sex bias was due to choice of informants (Table V.9). The post-64 year age bracket gives deceptive activity rates since in the correct context, it should not even be computed. Analysis is therefore confined to the oconomically active age group of $15-64$ years. The highest male activity rate was in the 60-64 age group with the lowest in the 15-19 age group. Female activity rates are much lower than male ones. But as in the case of males, females aged 60-64 returned the highest activity rate, the lowest also being in the 15-19 age group. The latter consists mostly of school population whose preoccupation is school attendance. Absence of females aged 65 ov more years may be attributed
to their earlier roturn migration back home and to their dependence upon husbands or working children. Finally in this item, mobility preference of migrants was considered* (Table V.10). More than half of the reapondents wanted to retain their prosent employment in Kisumu. Older age groups opted for this on grounds of frequent visits home to nolve problems thorc. The majority of those who wished to move clsewhore on promotion and at times even in the absence of promotion were the younger age groups. The most migratory age bracket, 20-29 years, is algo known for employment mobility typified by frequent change of employere. The problem posed by migration has been underlined by an International Labour Organization (I.L.O.) team in these words:

> "An inflow of job seekers at roughly three times the rate of growth of job opportunities in the formal sector has inevitably made it very difficult to absorb the migrants into productive employment. "18

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In the absence of productive jobs opportunities migrants have no option but to be aelf-employed even in illicit occupations as has been mentioned before. The comprehensive work of Thomas sheds more light on migration differentials and may be consulted by those who wish to study them. ${ }^{19}$

## Summary

This chapter has highlighted the basic migration differentials of Kisumu migrants. Africans constituted the dominant ethnic group followed by Asiang, Arabs and Europeans in that order. Of the Africans Juos were numerically the most important tribal group. A fow Uganda and Tanzania tribes were also encountered in the survey.

The ohief migration differentials considered are sex, age, marital status, educational attainment and economic activity. Threequarters of all rospondonts were males compared with females who accounted for only one-quarter. Age is an important attribute of migrants: the peak of migration intensity was found to be in the 20-29 age bracket. Both sex and age have been frequently cross-classified with several variables considered in the

study. Married persons vere the most important of all the four marital status, single, married, divorced and widowed. But split migration seemed a common feature with one spouse moving into the town alone to be joined later by another at an appropriate time it seems an important factor in the changing sex balance of towns. Educational attainment tends to widon horizons of migrants' percoptions of opportunities. It has been found that higher educational attainment by the younger migrants intensified their mobility. Cross-tabulations of education with other migration differentials revealed interesting results concerning educated vis-a-vis illiterate respondents. Perhaps the most complex of the migration differentials was economic activity. A probe into occupational category, income, economic activity rates and other related factors confirmed the dominance of economic factors in rural-urban migration.

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## REFERENCES

1 Siegel, S. - Non-napametric Statioticafor
(1966) the Behavioural Sciences, New

York: KcGraw-Hill.
2 Kenya, Republio of - Kenya. Population Census 1069
Volume II, Data on Urban
Population, Statistics Division,
Ministry of Finance and
Economic Planning, p. 15.
3 Oucho, J.O. - The Geography of the Port of
(1972) Kisumu. Unpublished B.A.

Dissertation, Department of
Geggraphy, University of
Nairobi, p. 2.
4 Van de Walle, E. - Charactoristics of African
(1968) Demographic Data. In Brase, W
et al. (Eds.), The Demography
of Tropical Africa, Princeton,
N.J.: Princeton University

Press, pp. 51-52.




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## SPATIAL MIGRATION SYSTEN OF THE TOWN

The foregoing discussion on migration differentials is an important prelude to migration intensity in spatial context. Nigration process involves considering birthplaces, homes and mobility characteristics of migrants. Hirst suggests that from a geographer's point of view at least, a question on place of origin (birth or usual residence) with more elaborate questions related to nobility or duration of residence at the place of enumeration would be best administered through a sample survey. He further suggests that the question on placo of origin should replace that on tribal affiliation. ${ }^{1}$ It should be realised, however, that the two questions are at best complementary in that either information would be cross-checked by including them in a census or a survey.

This chapter analyses variables which constitute the migration process. These include the distance factor, birthplace and home information with more omphasis on the Kisumu Region, migrants' maintenance of contact with home, mobility characteristics of migrants, characteristics of households and environmental conditions which repel or attract migrante.

## MIGRATION AND DISTANCE

## Theoretical Migration Models

Ravenstoin's thesis that most migrations occur over short distances only ${ }^{2}$ has been endorsed by more scientific and sophisticated studies in different parts of the world. Little purpose may be served by describing in detail all studies which have contributed to this end. But mention may be made of Morrill.'s analysis of the diverse theoretical studies. In a study of the relevant migration theory Morrill classifies the relevant migration models as deterministic and probabiliatic. ${ }^{3}$ Foundation: of deterministic models wac laid by Ravenstein in his inverse distance relationship, fur where a is 1 or 2. It wab later evolved by Zipf. who considered the factor of distance as having $P 1$ P2/D relationship: Zipf's PI P2/D hypothesis states that migration, like other types of interregional exchange, is directly proportional to the product of the populations between the two regions involved, and inversely proportional to the distance between the regions. 4 The famous social physicist, Stewart ${ }^{5}$ and others such as

Reilly ${ }^{6}$ and Warntz and Stewart ${ }^{7}$ have formulated, the gravitational or interaction principle using data respectivoly relating to population, rotailing and the prices of goods. The second aspect of deterministic models relates to exponential functions in which migration has a decreasing function of distance in the form of "intervoning opportunities". Stouffer has consiatently argued that migration varies directly with the product of population but inversely with the intervening opportunities in between. ${ }^{8}$ Hagerstrand stresses that migration is a function of information and distance in that the friction of distance advorsely affects spatial diffusion of phenomena: people, information, idess or innovations. 9 While it is thought that potential and gravity models are better formilated using censue rather than sample survey data, all the foregoing have been incorporated to probe into the distance factor in migration to Kisumu. This is different from interyegional exchange because the town is taken here as a recejving centre from other parts of the country thereby eniarging its size. The models may not therefore paint the correct picture of rural-urban migration as the urbenrural countermigration is even difficult to ascertain.

Probabilistic models treat migration as a
stochastic process. Thus Fyke has examined the theoretical basis of population migration models in that light. ${ }^{10}$ In Swedon, Kuldorff has found that the lognormal distribution best describes the probability of migrating across administrative boundaries. ${ }^{11}$ But perhaps the best known study is that of Bachi which embodies statistical description of movement distances and effects. ${ }^{12}$ Geographers have been keen to adopt this work particularly in the "nearest-neighbour" studios. Also notable is the contribution of Bateman Whose computed exponential functions seem to fit various observed sots of data distances. ${ }^{13}$ Another interesting Work is by Porter who argues that "Job vacancies (migration opportunities) and applicants (persons ready to migrate) occur randomly in time. Each applicant takes the nearest vacancy (in a small unit of time)". ${ }^{14}$

Howeyer, the main weakness of these probabilistic migration models is that they are derivatives of physical phenomena or theoretical considerations. Human behaviour is hardly predictable and cannot be considered analogous to physical phenomena without neccssary modifications.

Distance Factor in this Study

In this study distance bands were drawn at intervals of 50 kilometres from Kisumu town (Fiб. 9). These have been used to compile Table VI. 1 which summaricos the situation. The general observation is that migration to Kisumu town is inverscly related tc distance. Anomalies shown by the last two distance bands may be: attributed to biases in the sample. In most cases migrants belonging to one extended family were frequently found to live under one roof even if they were separate households. Since they all qualified for interview their numbers were somewhat exaggerated in the ageregate sample. These two cases, howevar, do not invalidate the rule of inverse relationship between migration and distance. Also, the dominance of the $50-100 \mathrm{~km}$. distance band over the $0-50 \mathrm{~km}$. one is due to the fact that in the latter the majority of migrants were actually commuters nowhere interviewed in the town. The second distance band has most migrants from Siaya District of Nyanza Province. Perhaps, census counts would agree better with the expected migration - distance inverse relationship. It can be seen in the table that cumulative frequencies demonstrate insignificant additional migrants from one


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distance band to the other particularly from the second band onwards. The average number of migrants per district in each band gradually decreases except in the last two bands. A study of Freatown in Sierra Leone by Harvey had nearly the same results. 15 Distanco is an important factor which may be correlated with several variables in migration studies. Thus migration distances may be correlated with the level of income, the degree of unemployment and population size at the place of origin and destination as well as age of the migrant and the migrant's family income. ${ }^{16}$ Not all of the ten hypotheses tested by 0lsson were tested in this survey owing to lack of data and bacause the rural component of migration was not probed into. Howover, two findings are in full agreement with Olsson's: the length of migration intensity, being negatively relatod to the age of the migrant; the majoxity of old migrants were from no more than 100 km . from Kisumu in the neighbouring districts of Kisumu, Kakamega, Siayapparts of South Nyanza and Kisii. Secondly, the length of migration is positively related to the migrant's family income. Using education as an index of enhancing family income Olsson found that people with the highest education usually make the longest moves. This observation has been touched

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upon in a preceding section dealing with educational attainment as a selective factor.

Fotential and Gravity Models have not explicitly been tested in this work. It should be borne in mind that this study was not on intermegional migram tion in which the "force of attraction" exerted by different regions could be determined from population and distance. The pionesring work of Ominde has demonetrated the usefulness of census data in studying internal migration. ${ }^{17}$ But it could be improved by testing the two models of spatial interaction using either the latest censur data or a sample survey covering the whole country. Apparently, spatial interaction studies have depended heavily on census information. Besides the studies reviewed by Morrill, other notable contributions have been made by Abler, Adams and Gould, ${ }^{18}$ Dodd, ${ }^{19}$ Huff, 20 Anderson, ${ }^{21}$ and Isard and Bramhall. 22 With recent emphasis on model building in human geography and other social science it can only be expected that more analytical contributions are yet to be published.

## BIRTHPLACE AND HOME INFORMATION

## General Consideration

Although it has been argued that "analysis of birthplace data can never give a complete picture of the movement of population and can give no indication of the number of moves an individual may take in his lifetime, $"^{23}$ it is apparent that birthplace information is basic in any migration study. Especially is this so when it is to be considered againgt the permanent domicile (home) of migrants. In Tables VI. 2 through to VI.4a both birthplace and home are shown to be interdependent in that changes betweon the two are due to several facets of migration. Of the 568 respondents 540 were born in Kenya and 28 elsewhere; of that number 555 reported their homes to be in Kenya and 13 elsewhere. Additions to home are attributed to Asians in particular. who have taken up citizenship in the country. The rest of them stated that they were British rather than Indian (home country) citizens. Within Kenya spatial characteristics of birthpiace and home are examined at two levels: the general level by Provinces and in details by the districts

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around Kisumu town (see Fig. 10). Absence of migrants from Coast and North-Eastern Provinces is a notable feature.

The spatial pattern depicted by Fig. 11 reveals two important features. First, the majority of migrants come from Nyanza Province whether birthplace ( 80.5 per cent) or home information ( 80.9 per cent) is the index used. The whole of Kisumu Region accounts for 95.1 per cent for birthplace and 96.5 por cent for home information. Second, higher proportions of Nyanza and Western Provinces migrants exist for home than for birthplace. This means that some of those born in Kisumu town reported their homes in the two provinces or that marriase migration may have ongendered change of residence. It was found that migrants vere more willing to report their homes than birthplaces so that this could also cause the discrepancy. This is explained by 486 responses for home as compared with 432 for birthplace information. In general, however, no significant differences was found between migrants' birthplaces and homes since the two were generally identical.

Migration rates to Kisumu were also computed for the provinces using birthplace information. Migration


FIG 10 OUT-MIGRATION FIELDS OF THE SAMPLE POPULATION IN KENYA.


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rate, $m$ is expressed as

$$
m m \frac{M_{0} K_{0}}{p}
$$

where
$m$ is the migration rate for the specified migration interval, $M$ is the number of migrations or the number of persons migrating to the interval, and kis a constant, here 1,000 .

In this study migration interval refers to all years covered in the survey (see Table VIII. 3), N to migrants enumerated in the town reported by place of origin and p to those aged 15 years or more as at 1969 census.

Table VI.l agrees closely with Fig. 11. It may be argued that migration rates differ according to the frequency of migration between different pleces. But the position of Rift Valley Province does raise some concern especially when compared with Central and Eastern Provinces. Table VI. 3 shows migration rates of some 18 districts whose migrants were experienced in the survey. The significance of Siaya can be seen at a glance; the migration rate for Kisumu, the district in which the town lies, is almost half that of Siaya. As has been explained

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in the preceding section the contribution of the district is distorted by large numbers of commuters who were not interviewed. It may also be noted that apart from the two districts, the rest of the districts have much lower rates of migration. South Nyanza and Kakamega each recorded just over one-tenth migrations out of 1,000 persons. The overall observation is that birthplaces and homes of migrants originating from the five provinces of Kenya are the same; a very insignificant proportion of migrants had changed the two.

The Kisumu Region

In Nyanza Province, too, there was little discrepancy between birthplaces and homes of migrants. More than half of all migrants reported their birthplaces or homes in Siaya District and only one third reported these in Kisumu District (Table VI.4). Again, the genexal observation is that more people reported their homes than their birthplaces. The slight difference in the Kisii District migrants confirms the argument that out-migration is minimal there.

As for Western Province the predominance of Kakamega District oan be noticed (Table VI.5). It


FIG. 12 BIRTHPLACES AND HOMES OF MIGRANTS BY DISTRICTS IN THE KISUMU REGION.

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influence of Busia as well as Jinja, in Uganda and Eldoret respectively so that this strengthens the position of Kakamega District. As in Nyanza, the province had more people reporting their homes than their birthplaces. No significant difference was found between reporting the two places.

The aituation for the two provinces has been shown in Fig. 12. While 83.8 per cent reported their birthplaces in Nyanza Province only 15.3 per cent reported them in Western Province. For home information the two places recorded 83.8 and 16.2 respectively. Kakamega is the only district outside Nyanza whose migrants continue to show considerable interest in Kisumu town. Contributions of the seven districts should be studied carefully in Fig. 13.

Onc of the research hypotheses may now be cited, namely, that Kisumu is the migration potential for Western Kenya irrespective of political or ethnic boundaries. This hypothesis is confirmed by the contribution of Kakamega District in the effective sample of Hestern Kenya migrants. The contribution of Busia District is nearly similar to that of Kisii, the determining factor common to both being distance from Kisumu town. The author has oftentimes heard Luos and Luhyas



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- 132 - in Nairobi jokingly refer to themselves as "Unitod Kisumu", a term understood to mean people who focus their attention on Kisumu as a Regional "City". In the same context they sometimes refer to anybody from Coast Province as a "Mombasa resident" even those having remote connections with the town. Thus inhabitants of an imnediate hinterland focus their intereste on the nearest town to their homes. Migrants originating from the locations in the districts of the Kisumu Region were identified in order to probe deoper into regional migratory behaviour. A few remarks are made about each district (see Fig. 1.3).


Siaya Diatrict

Siaya borders Kisumu District on the West. For a long time upto late 1960 s the two districts formed Central Nyanza (Taiole VI.7). Ito geographical endowments aro not favourable: much of it auffers from low and orratic rainfell as well as poor soils. As the Luo havo been dubbed conservative, traditional agricultural and livestock raising methods persist. Gem Location, now Yala Division, had the highesi proportion of migrants. This location leads all others, even in the whole of Western Kenya, in educational attainment at the highest rungs of the academic ladder. Enough has been said about
educated person's propensity to migrate. Most Gem and Alego migrants were actually permanent migrants living in the former peri-urban areas of Bandani, Nyalenda and Manyatta. Asembo Location, with its sandy coils and erratic rainfall charaoteristich of the lake shores, cannot confortably carry a large and fast growing population. In much of Siaya District the main causes of migration are basically envirormental hagards. In fact, Allan's comment on the Luo area quoted in the Introduction appears most relevant to Siaya of all the three Luo Districts. 25

Kisumu District

Kisumu Distriot is endowed with better olimatic conditions and agricultural products, cane sugar, rice and even dairy products.. Situated within the climatic influence of Nandi and Tinderet Hills to the north the District receives more rainfall which has oftentimes led to flooding in the Kano Plains only a fow miles east of Kisumu town. In the District Kano Location reported the highest proportion of migrants (Table VI.8). To meet environmental challenge posed by frequent floods it has been necessary to resettle the people of Kano in


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- 234 - settlement schemes leaving vide expanses of land for rice cultivation. The pilot irrigation scheme has yielded good results; but it has led to other ecological and human problems. 26 Out-migration is therefore seen here as the only alternative to human survival. It should be noted that the number of Kano migrants is reduced by nonconumeration of commuters. It may be for this reason, too, that Seme migrants gqual Kano ones ag the former have of necessity to reside in the town. Kajulu Location is now included in the new Municipal boundaries although some respondents originating from the location hardly consider themselves part of the town. Muhoroni is a settlement scheme area where out-migration is expected to be insignificant since farmers here have little interest in the town other than for shopning purposes.


South Nyanza District

## This is the largest district in Nyanza

Province. Its physical endowments are almost similar to those in Kisumu District. A few areas show characteristics of some locations in Siaya District. Table VI. 9 shous that compared with Siaya and Kisumu, the District had much lower proportions of migrants. Even Karachuonyo,

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one of the largest locations, compares favourably with only a few locations in the two districts. Whereas South Nyanza accounted for only 16.2 per cent of all migrants Kisumu accounted for 30.5 per cent and Siaya 50.6 per cent. The modal percentage of migrants from the Districts is 0.5 which only compares with Kisii locations of Nyaribari and Wanjare. Nost permanent migrants who originally migrated from South Nyanza were found in Nyalenda Estate.

## Kisii District

It has been stated elsewnero that this is the least migratory district in Nyanza and, in fact, in the whole Kisumu Region. Table VI. 10 confirms this argument in that percentages of migrants out of the provincial total are considerably low. Kisii migrents interviewed in the town were recent arrivals mostly working at the Kisumu Cotton Mills (KICOMI). However, no investigations pertaining to employment bias vere made.

Kakamega District
is the diminishing man-land ratio. This problem is already acute in the four locations of Bunyore East and Hest, and Maragoli North and South. This pressure of population on the land has been underlined by several studies about the area but it might be a good idea to defer discussing it until Chapter :.V. Although the dominance of Maragoli and Bunyore are explained by Table VI. il, it should be noted that improved road services between Kisumu and Maseno as well as Kisumu and Kakamega have enhanced commuter transport. It seems that several commuters must have been omitted in the survey. The role of transport may also explain the position of Wanga and Marama locations: there is efficient daily road as well as road and rail transport on Kisumu-Numias and Kisumu-Butere respectively.

## Busia District

## Busia has almost the same geographical

features as Siaya District. For many years upto the 1962 much of the District was under the former Central Nyanza District. It is well known for cotton cultivation and the Yala Swamp which is to be reclaimed through irrigation
farming. That the district looks to Kisumu for most of her nesds is due to its longstanding connoctions with the town in administrative matters. It is also due to good road transport between them. But the influence of Jinja and other lake towns in Uganda should not.be underestimaied. Compared to locations in Kakamega District, those in Busia showed lower rates of out-migration (Table VI.12) 。

Bungoma District

Of all the Western Province locations those in Bungoma District had the least proportion of migrants. Only two locations produced migrants (Table VI.13). As has been suggested before Bungoma District is also under some influonce of Eldoret township.

The foregoing account does not exhaust \&ll the locations in the Kisumu Region. Moreover, only the core locational names have been used instead of their smaller subdivisions explained by compass directions. Hence, we have used names such as Gem instead of North Gem, South Gem and so on. This has certain shortcomings but it was necessary in the light of some respondents' ignoreance of such subdivisions. All the locations not


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- 138 m included in any of the tables had no migrants in the sample; of course, a census count would prove otherwise. There was a tendency for migrants from one location to nucleate in cortain areas of the town, which fact suggests chain migration on lineage and locational bases.


## MIGRANTS' MAINTENANCE OF CONTACT WITH HOME

It has important to ascortain the degree of migrants' contact with places they consider to be their homes. Two indices were used: these were relations and property loft at home while staying in the town.

## Relations at Home

The first index is explained by Table VII.l.
Those who reported parents to be at home were nearly 78 per cent compared with 12.6 per cent for those with their spouses at home. A realistic figure could not be reached in the latter since some male respondents were reluctant to reveal that they were polygamists. Only one-tenth reported having other relatives and friends.

## Property at Home


#### Abstract

Property may bo said to strengthen urbanm rural links. It is clear from Table VII. 2 that shamba alone accounted for 43.1 per cent of all kinds of properiy at home. Livestock was unimportant perhaps because as some respondents put it, Jivestock require constant care by their owners not relatives or friends; some 14.9 per cent of respondents to this question reported having neither of the two.


On the basis of the iwo indices it may be said that Kisumu migrants have very strong links with their homes. Indeed, Elkan has suggested that ciroular migration is an important phenomenon in Rast Arrica $2 s$ well as other parts of the continent. ${ }^{27}$ Any developments advocated through physical planning and rural development programmes hage to bear in mind, this important situation. This point will be taken up in the next chapter for thorough analysis.

## MOBILITY CHARACTERISTICS OF MIGRANTS

Nobility of people may be explained by several Pactors. These include the place of residence

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#### Abstract

at cortain spocificd timo periods, past experience in other urban centres, period of migration into the present residence, establishment on arriving in the town, and the nature and frequency of visits home if this is reported elsewhere. It is in this regard that migration histories may be unfolded in order to make some general conclusions pertaining to mobility characteristics of migrants.


## Place of Residence in 1968 and 1972

The first attempt in this regard was to find out respondents' place of residence five years (1968) and one year ago (1972). In Table VIII.1 it can be seen that in 1968329 responds resided in Kisumu as compared with 239 who resided elsewhere: at their homes, in other places rural or urban. In 1972, however, the picture had drastically changed as 93.3 per cent of all respondents reported residence in Kisumu. An additional 201 represents a gain in net migration into the town or a loss of other places to it. Nost of these reodnt arrivals were young school-leavers some of whom were still seeking paid employment in the town. Chi-square analysis of the


#### Abstract

- 141 - phenomenon was also made. The hypothesis that there is significant difference in residence of respondents between the two years was accepted since it was significant at 5 per cent and 1 per cent levels (Table VIII.la).


## Previous Urban Experience

It was also necessary to consider the number of towns other than Kisumu in which migrants had lived (Table VIII.2). In the case of all respondents the majority had lived in two towns only and the lowest proportion in four towns. For temporary migrants the situation was similar to the foregoing with those having lived in only one town soaring high above those who had not lived in any town other than Kisumu. A different outlook may be noticed in the case of permanent migrants. Prominent in this group were those who had not lived in any town other than Kisumu followed by those who had lived in one town only. No permanent migrants reported having lived in four or five towns, which suggests that this group had greater attachment to Kisumu. There was very little difference in the characteristics of permanent migrants and non-migrants. Nearly 48 per cent of nonmigrantis had been in Kisumu throughout and slightly more
than one-fifth had been to one and two towns respectively. lione of the group had lived in five towns.

The number of towns was limited to five so as to avoid memory lapse. Nairobi figured prominently among the Kenya towns in which migrants had lived; it was followed by provincial headquarters, Nakuru, Nyeri, Mombasa, Embu, Garissa and Kakamega and then other important towns such as Eldoret, Kitale, Thika, Murang'a and so on. Mere short-term visits to any of the towns were ignored as they would distort the information.

The following hypothesis was also tested:
Ho: There is no significant difference in the number of towns lived in between temporary and permanent migrants and non-migrants.

Hl: There is signiricant difference in the number of towns lived in betweon temporary and permanent migrants and non-migrants.

The hypothesis was rejected at 5 per cent although not at 1 per cent lovel of significance (Table VIII. 2a).

## Time of Migrating to Kisumu

Different types of migrants moved to Kisumu at different periods in historical perspective. Table VIII. 3 shows a few interesting features which require some explanation. Of all the respondents about onetwentieth were born in Kisumu town; 1 per cent did not state time of migration to the town; and the rest (93.4 per cent) migrated into the town at difierent periods. The period 1960-69 had the highest proportion followed by the period 1970 onwards. Since the latter is openended more migrants must have moved into the town between that date and May, 1973 so thet the number might be much higher at the close of the decade. The same trend observed about all respondents appears in the case of temporary migrants. These recent arrivals consisted mainly of the school-age population and those aged betreen 20 and 29 years. But temporary migrants showed different characteristics in that the 1940-49 and 195059 periods each accounted for 32.7 per cent of the total. Non-migrants could not be represented in this tinechart because they were all reported as born in the town.
$-144 \quad-$

Absenco of migrants delating to the 1910-19 period may be due to various reasons. It is apparent that memory lapse may have led to migrants confusing the correct docade of migration to Kisumu. Also, it may be that the 1914-18 War had robbed tho town of its potential in-migrants as young and middle-aged adults turned to reoruitment for the War. Thus the War may have wiped out the flood of rural-urban migrants by substituting war service for urban labour.

Chi-square analysis of this item relates to migrants only, temporary and permanent. It wes found that there is very significant differenco between the two kinds of migrants during the migration interval in question (see quble VIII.3a).

## Lstablishment of Now Migranto in the Town

A new migrant is faced with certain problems in the town the chief ones being housing, food and other aspects of daily maintenance. In many respects the presence of relatives or Friends in the town is an important incentive to chain-migration along ethnic, tribal or family lines. Sometimes, however, their presence may have no influence at all. Table VIII. 4 explains
the situetion in respeot of the town. Wheraas, the rosponse rate to presonce of relatives accounted for 97. 9 per cent that relating to staying with them accounted for 94.9 per cent of the total aample. There were 556 responses to the question relating to presenoe of relatives and friends in Kisumu. Of these only abouf one-twentioth reported having nejther. Relatives were by far the majority. The aubsidiany question on who of those had newiy arrived migrants Btaying with them shortly elicited 539 responses of whom more than half wore relatives. The proportion of those. Who stayed with neither of tho two nearly doubled that of their presence. Out of 391 With relatives in the town 296 ( 75.7 per cont) stayed with them but 171.6 per cent were those who stayed with neither. The latter were mostly transferred workers who, before renting own houses, stayed in hotels or who took over houses of their predecessors in the case of institutional housos. .. Chi-square analysis tested the hypothesis that:

Ho: The presence of relatives and friends did not influence migrants' stay with them in the early stages of in-migration.

$$
-146-
$$

Hl: Tho prosence of relatives and friends influenced migrants' stay with them in the early stages of in-migration.

Tho result kas found to be aignificant at both 5 per cent and 1 per cent lovels. (Table VIII.4a). Thus II was socopted.

Perhaps further probe into the question might be uscful for planning purposcs. In their study of Honterdey, Moxico, Brown and Fiendt argued that the mere presence of relatives or friends does not insure that help will be forthcoming. They further identified forms of assistance to now migrants as provigion of food and shelter as befits family merbers (70 per cent); help in finding a job (14 per cent); help in finding own housing (10 por cont); and direct financial assistance by paying trip or lending money and the like ( 7 per cent). 28 In the devoloping world where community comradeship is still the rule rather than the exception these forms of help explain the prerequisites of new migrants in a new soene.

Contact with Home oinoe Nigration into Kisumu

Kisumu vas also examined. Tables VIII. 5 through to VIII. 7 a demonstrate the importance of this fact. In Table VIII. 5 it can be seen that those who had visited their homes since migrating to the town were by far the majority. They were followed by those who reported the town as thoir permanent home, namely permanent migrants and non-migrants. Less than one-fifth had nevor visited home aince migrating. The table expiains the importance of urban-ruxal links in an environnent where an urban centre is a peculiar entity within an expanse of rural miliou.

Therefore it was necessary to consider the nature and frequencies of visits back home (Table VIIX.6). A notable feature is the alight doviation of the four possible responses. Visite home were considerod Within the frametork of non-working deys, holidaye, then money is most available and at irregular times as time and money may permit. Those visiting home on leave/ holidays accounted for 30.8 per cent of all respondenta to this question compared with weekend visitmakers who acoounted for 28.9 per cent. This means that any form of rest constitutes a most welcome relief to Kisumu migrants. It was generally found that these two groups were chort-distance migrants in the case of weekend

## - 248 -

visits and short-and long-distance migrants in the case of leave/holiday visits. Irregular visits ranked third and wide ranging reasons were given for this. End of month visits accounted for the lowest proportion of migrants. This group comprised mainly adult males with their spouse at home who sent or carried with them remittances to relatives; these enabled them to oolve such domestic commitments as cultivation, bush clearing and so on.

These visits home were also cross-classified with ages of respondents (Table VIII.7). The most striking feature is the dominance of those aged 25-29 years. In fact, those aged between $20-39$ years show moro interest in home visits than any other age brackets. Another important foature concorns those who mado irregular visits (othor). They aro reprasented in all age groups excopt the 65-69 age group, which had no responses at all. Consisiency of this gfoup begins at the age 60 years. On computing chi-squars for this item the hypothesis tested was:

Ho: There is no significant difference in visits home between age groups.

HI: There is significant difference in visits home between age groups.

Table VIII.7a shows that the result was significant at 5 per cent level.

Future mobility of urban migrants may take three forms. These may be continued stay at the present residence, movement to another urban centre i.e. urbanurban migration or urban-rural migration to the countryside. This question forms the basis of Table VIII. 8. The majority of respondents reported continued stay in Kisumu. But potential out-migrants accounted for slightly more than onemfifth and nearly one-tenth respectively. Thus respondents in the town were. relatively stable and those who expected to move out preferred urban-urban migration. Urban-rural migration is currently a rare phenomenon which involves a small number of retired workers and unemployed persons.returning home.

## CHARACTERISTICS OF HOUSEHOLDS

It has been stated elsewhere that households ranged from a single occupant through a nuclear family to an extended or composite family. Since interviews werc confined to heads of households some' bias in reporting

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occurred in different facets. Some heads of households gave incorrect information about themselves as about other members of the household: wives, children and other relatives. The anomalous sex ratio particularly among those aged $0-4$ and 5-9 years may be attributed partly to misreporting by heads of households. Fig. 14 ghows enumerated and graduated population for Kisumu. The yawning gap shows the influence of migration particularly in those ages most prono to migration.

Household Sizes

Table IX. 1 shows some interesting features. It can be seen that the dominant household size had 4 to 6 persons notwithstanding the nature of combination. But the smallest houschold size accounted for 37.5 per cent of all sizes. Households with 10 or more persons accounted for little more than one-fifth of the total. However, the table' fails to depict the true situation in the three strata which reflect different socio-economic characteristics of households. In order to identify these Fig. 15 should be studied carefully.

The smallest and largest houschold sizes
show almost similar characteristics. In the former stratum $C$ was outstanding followed by strata $B$ and. $A$

FIG. 14 ENUMERATED AND ADJUSTED POPULATION FOR KISUMU TOWN


FIG. 15 HOUSEHOLD SIZES BY STRATA


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in that order. This dominance of stratum $C$ is furthor experienced in houschold sizon sith 4-6 and 13-15 persons. As has been explained in prevjous chapters gtratum $C$ consists of the African population most of whom still cherish polygamy and therefore have large households. In households with $4-6$ persons the same pattern was notioed as in the preceding nousehold $\operatorname{size}$. It call be noted that stiata $A$ and $B$ accounted for nearly half of the total in thet size group.

In housoholds of 7-9 persons a.differont pattern emerges. Both strata A and B acoounted for 63.5 per cont of the total in this size group with stratum $B$ alone boing 46.2 per cent. These are the high and medium groups in the social structure of the town. But no convincine reason may be advanced in respect of stratum $C$ which here loses its dominance to stratum B. Houscholds having 10-12 persons also show the dominance of stratum $B$ which accounts for exactly half of the total; the other half is shared by $s t r a t a A$ and $C$. This household sizo was characterised by middio-aged or old heads of housoholds living together with their wives, children and other rolatives within the extonded ramily system. It is a modal size for most households in not only Kisumu but also othor towns in Kenya but
tends to typify medium income or medium density residential units. The largest household size with 13-15 persons was not experienced in stratum $A$ which consists of high income and low density residential units. The dominance of stratum $C$ may be atiributed to the fact that most of the former perimurban inhabitants had larger families and tended to stay with more relatives than in the other two strata. As has been explained in Chapter II, somo inhabitants in this stratum actually have homosteads in which they porpctuate modes of rural life.

Information collected about numbers of people in a houschold may have been deceptive. Yet it is a vital indicator of the socio-economic differentials of different strata which constitute a given set of sample areas.

Age-sex structure of sample households gives a more representative situation in the town than that of respondents. The latter were distorted by the biaced selection of respondents in terms of heads of households which tended to favour males. In Table IX. 2 it can be seen that the predominant age-group for both sexes was 15-19. For males only the dominance of those aged $20-24$ years was observed; the peak of migration
still occurs in the 20-29 age bracket. But for femalas those aged 15-19 years dominated. More than one half of 2,656 members of households were males. This confirms a high rate of masculinity which is characteristic of urban populations. Younger women showed flavour for urban living as oan be seen in the table.

Some Demographic Parameters

Several parameters ware computed from household data. These comprised sex, age, child-woman, and dependenoy ratios as well as labour force rates. Notwithstanding some biases in the sample these parameters explain roughly the demographic sketch of the town (see Table IX.3)。

It can be seen that there was low sex ratio in the 0-19 age bracket. In other words, in every fiveyear age group within this bracket there was low sex ratio, i.e. Homen outnumbered males. From the age of 20 years onwards the influence of in-migration asserts itself. As masculinity increases with age so does sex ratio which hits the peak in the $40-44$ age group. In Table IX. 3 three stages of sex ratio are discernible: those aged 0-19 years may be olassified as children,

## - 1153 -

those aged 20-29 years es young adults and those 30 and above years as middle aged and old adults. Differential influence of migration on these stages of human life may explain differences in sex ratio.

Age ratios were generally high. Nale age ration were generally higher than those for females and almosi identical with both sexos considered togethor. A ratio of 1.0 indioates perfect correspondence of age groups; a higher ratio indicates an excess and a lower one shows deficit over the preceding age group. The excess of ago group 5-9 for males and both sexer may be attributed to apparent overmenumaration of those aged 0-4 ysars. Hovever, age ratio for females is consiatent With the normel situation aince there are usually about 1.0 female birthe compared to 1.05 male births. Two age groups show high age ratios which are due to inmigration. The first is the $15-19$ age group at which point an influx of secondary school population is experienced in the town. Female. age ratios are more than for males in this age group because young women increasingly show the tendency of being more migratory than their malo counterparts. The second is the 25-29 ago group when rural-urban migration reaches the peak.

Besides these two ratios ono fortility

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- 15% -
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ratio and two economic activity ratios were computed. On the basis of household data child-woman ratio was found to be 0.648 or 64.8 per thousand. It is computed as follows: ${ }^{29}$

$$
\frac{P_{0-4}}{P_{15-44}} K
$$

where:
$P_{0-4}$ is the number of ohildren, both sexes, under 5 years of age,
$\mathrm{P}_{15-44}$ is the number of females between ages 15-44. (Sometimes ${ }^{f_{15}} 15-49$ is used), and $K$ j.s $1,000$.

This is a reasonably high estimato for Kisumu although figures may have been distorted by incomplete reporting of the number of children.

Dependency ratio was found to be 73.1 per
cent for the total sample. Whereas that for males was 56.8 per cent, that for fomales was 97.0 per cent. The high dependency ratio for fenales was augmented by low average economic activity rates for the same sex (see Table V.9).

Or the total sample reported as economically

## - $\quad 158$

active 56.6 per cent were labour force for both sexec. Labour force rates for males and females were 62.4 per cent and 49.8 per cent respectively. These ratios corresponded very closely with the socio-economic characteristics of different strata, a situation reminiscent of the colonial economy. For oxample, heavy dependency ratios were experienced in much of stratum $C$; the ratios were medium in stratum $\mathcal{B}$ and light in stratum A which was exclusively for Europeans and Asians during colonial days. A aimilar pattern has been found in tany colonial towns including Nairobi. ${ }^{30}$ Census data analysed by Ominde gave dependoncy ratio ar 69.73 per cent and labour force as 58.9 per cont.

Porhaps the situation may be better explained by age-sex pyramide for the whole and parts of the fown. Figs. 16 - 22 should be studied cerefully in order to follow the trend of analysis. Seven pyramids represent Kisumu town and two samplo areas in each of the three strata.

The most striking feature in Fig. 16 is female dominance at age 0-4 years. This observation is inconsistent with the normal demographic situation but is not an isolated finding as will be explained shortly. It can also be seen that female dominance at age 0-4

## FIG. 16

KISUMU TOWN
SAMPLE POPULATION: 2,656


FIG. 17
MLIMANI ESTATE SAMPLE POPULATION: 112

- I61: -
influences a similar situation in the 5-19 age brackot before male dominance sets in. The latter occurs from the age of 20 years onvards. This may be attributed to in-migration which reaches the peak in the 20-29 age bracket. Absonce of fomales at age 70 and above may be due to the tendency for female migrante to return to their homes earlicr than male migrants.
Although the age-sex pyramid for Kisumu town is basically similar to that of other urban centres, it shows anomalous sox pattern in the 0-19 age bracket. It is a demographic norm that there are more male than female births but that females have higher survival ratios than males. The expected situation should therefore be malc dominance at age $0-4$ and slight female domisanoe in the other ages. Ominde has found a similar anomalous situetion in urban centres such as Wundanyi, and Nyeri. 31 In order to probe into this anomalous sex pattern at age $0-4$ the author carried out a short survey in both public and private maternity hospitals in the town. Information was procured from delivery registera for 1972 and 1973. The following summary explains the findings:

FIG. 18

## PATEL FLATS

SAMPLE POPULATION: 98


$$
-263 \quad-
$$

SAMPLE DATA FOR POPULATION AGED 0 YEAR

|  | Number of Birtha by Sex |  |  |
| :---: | :---: | :---: | :---: |
| Maternity of Delivery | Males | Females | Both |
| Kisumu Nursing Home ${ }^{\text {a (1972) }}$ (1973 | $105$ $87$ | $\begin{array}{r} 111 \\ 79 \end{array}$ | $\begin{aligned} & 216 \\ & 166 \end{aligned}$ |
| ```Victoria Hospital b (1972)``` | 72 | 54 | 126 |
| New Nyanza General Hospital ${ }^{\text {c (1973) }}$ | 796 | 851 | 1647 |
| . | 11,060 | 1,095 | 2,155 |

a Source: Delivery Register from 1972. This is a private maternity home.
b Sourco: Register of Births, Med. 99, GPK 1531-1m Bks 7/71. This is a government hospital.

- Same as b above.

The above information confirms female dominance at age 0 but it should be realised that not all births in these hospitals relate to the town only. Delivery cases can originate from farther off places in or outside tho Kisumu Region. It may have been more useful to refine the information by finding how many of thesc births originated from Kisumu town itself. Also as data for 1973 refer to months upto August only, it is risky to make conclusive remarks from them. Anomalies in age-sex pyramids for the town may be dua to some errors and other dubious reasons.

Errors might have occurred as a result of incorrect eatimation of age based on aither parents' deliberate misreporting or interviewers' arbitrary judgements in evaluation of ages. Underestination of children aged $0-4$ or 1 year is influenced by such stages as weaning, walking or talking which ocour at different ages for different children. ${ }^{33}$ The author is also well aware of the delicacy attached to babies and young children in an Afrioan community. As males are the more popular yet the less resistant sex, it is likely that revelation of male birthrs is tantamonnt to a curse. As a result over-reporting of females and under-reporting of males are likely to happen in cases where enumerators

FIG. 19
ONDIEK ESTATE
SAMPLE POPULATION: 230


FIG. 20
ARINA ESTATE
SAMPLE POPULATION:191


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have no chance to see the children being referred to. Other age-sex pyramids have been compiled for Mimani, Patel Flats (Stratum A), Ondiek, Arina (Stratum B), and Nyalenda, Manyatta (Stratum C). Except for stratum $B$ the rest of the sample areas had the foregoing anomaly. At Mlimani sex structure at age groups above 15-19 is nearly balanced although absenco of females starts at age 55 onwards. But feməles survive at later ages in Patel Flats where mont Asians were encountered. This ethnic group tends to stay in tho town longer than other groups so that higher survival rates of females is demonstrated by their presence in older ages. Ondiek and Arina pyramids are very close representations of an urban age-sex pyramid in that the expected age-sex pattern can be noticed. The influence of in-migration may be explained by the dominance of young adults in Nyalenda and Manyatta. Absence of females from age of 60 years onwards is again an interesting feature.

Sex Ratio by Age Group from Census and Survey Data

## Comparison of sex ratios by age group

derived from census and survey data reveals close agree-
ment of findings (Table IX.4). At age $0-4$ census data shows the expected sex ratio as different from survey data whose contrary results have been explained in the provious section.

However, between the 5-19 age bracket low sex ratios are experienced in the two sources of data. Conversely, the 20-29 age bracket has generally high sex ratios with consus data having much highor estimates. In the last two age groups survey information gives higher sex ratios. Masculinity in the town which is portrayed by survey data may be attributed to longevity or urban living at the highor ages. The general pattern of sex ratio by age group derived from the surves data does nct differ considerably from that derived from census information. They therefore constitute dependable data for analysis and projections.

## ENVIRONMENTAL CONDITIONS

Broadly speaking, migration is an adjustment to rigours of the physical and human environments. Thus people generally migrate from areas with repellent to those with attractive environmental conditions. 34 However, other intangible factors may cause migration. p

FIG. 21


FIG. 22
MANYATTA ESTATE SAMPLE POPULATION: 222


This section probes into reasons for migration, migrants' perceptions of salary and standard of living in out-anc in-migation areas and future migration plans. An attempt is made to classify migrants on the basis or ̂ future migration plans in order to facilitate rational planning of the town and its region.

## Reasons for Migration

Although no study can exhaust all reasons for migration, there are a few salient causes of migration. They range from the more easily recognised economic to the noneconomic factors which are difficult to ascertain. More often than not, "the place taken by what are frequm entry called social and pbychological (nor-economic) factors is leas clearly defined." 35 Even such factors of attraction as the highest paying jobs, best schools, livelest dance bands and an increasing number of relatives in the towns explain the situation only partially. 36 However, they reflect the diversity of interests which induce different people to migrate.

It is apparent that "most people are scarcely aware themselves of all the considerations that enter into their decision to migrate. "37 Factors which

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appear prominent at first sight may in fact be insignicant as a migrant continues to climb the social ladder theroby doveloping new aspirations. In a rural-rural migration study of Miwani Sugar Estato io the northcast of Kisumu town, Ogungo identified two sets of causes. These were economic and social causes on the one hand, and paychological and political reasons on the other. The influence of selected variables under the two was examined in terms of permanent workers and casual labourers. Of the 664 migrants interviewed those who reported economic and social reasons accounted for 76.2 per cent as compared with 23.8 yer cent for psychological and political reasons. ${ }^{38}$ It is interesting to note that some aspirations which appear insignificant turned out to be very important in that study. The only difficulty arises in comparing the frequencies which ahould have been expressed in relative rather than absolute form. Bogue argues that events leading to migration can be trisgered by a vast array of situations; he lists 25 situations which are likely to stimulato migration. The list is supplemented by "pull" factors at the destinations as well as socia-conomic conditions that can stimulato or retard the propensity to migrate among a population. 39 In formulating questions relating to reasone

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for migration to Kisumu the author considerod economic, sooial, educational and those vaguely called "other" factors. The pattern of responses agreed closely with Gerger's findings in the Vastervik migration study. 40 Fig. 23 explains the situation in Kisuma. It can be seen that unemployment was by far the most important reason for migration. Considered together with "transfer to Kisumu", they demonstrato the predominance of econonic reasons ( 63.3 per cent). Like the Varstervik study it was found that roasons lumped as "other" rank second to economic factors. They include the need to join the apouse already living in the fown, marriage migration and other less tangible causes. The most outstanding non-oconomic reason was inability to enter a (secondary) school at the source of migration which eccounted for onemtwentieth of all reasons. Pressure of population on the land was prominent among the less important reasons for migration.

Reasons for Migration by Age Group

Reasons for migration were also analysed in terms of age groups (Table X.l). Unemployment influe-

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nood mostly the $25-29,20-24$ and $30-34$ ago groups in that order. The least influencod were those aged 70m74 and $75+$ years. As for land hunger those aged 50-54 yeare were most important followed by 40-49 and 25-29 ege groups. It secms that older people realised the increasing diminution of land. Non-response in the 15-24 age bracket suggests either unawareness of land hunger or lack of interest in that item as a valuable resource. In the case of school as a factor those aged 15-19 years dominated followed by those aged 20-24 years. Non response from age 30 years onvards explaing relative marginality of this factor. In recent years a vast turn-over of primary school graduates in rural areas has atimulated rural-urban migration with a view to securing any form of seaandary school education. This involvee mainly teenagers who accounted for one-half of all responses to that variable (see Table X.l). Lack of social amenities clicited only one response. Naturally young adults of the age 20-24 years have almost similar aspirations for social amenities to the preceding age group with whom they have much in common. Tranefer to Kisumu affected mostly those aged 25-29 years followed by the next age group. As has beon argued olsewhere, the former have flavour for mobility and could satisfy

FIG. 23 REASONS FOR MIGRATION TO KISUMU


## REASONS FOR MIGRATION

1. Unemployment

1
2. Land not available
3. Could not enter a school
4. Social amenities
5. Transfer
6. Others

1
7. Not stated
this aspiration by initiating transers themsolves. On the other hand, older adults might wish to transfer to the town so as to enhance contact with their rural homes.

Other reasons recordod responses in all age groups. Again the predominanco of the 25-29 age group can bo noticed. Eut higher responses may be . ; ralised in the younger than older agen taking the foregoing as the median age group. This may be because younger wives often move into the town to join husbande, school population move there during holidays to stay with relatives and friends and so on.

The foregoing discussion has hinged on two premises of reasons for mieration, namely the "push" factors and tho "puil" factors. But the author avoided pigeon-holing of the reasons mentioned above within the framework of the two sets of factors, as it is difficult to ascertain their inpact either singly or simultaneously. The decision to migrate has been attributed to migrants' environmental perception within physical or human realms, ralistic or imaginative. This perocption takes in difforential human characteristics of which age is paramount. In economic terms percoption may also take the form of salary and standard of living at the previous vis-a-vis present residence. This may be termed percep-
tion of the socio-economic environment (Table X.2). It can be noted that to most respondents salary was better at previous than at present residence (Kisumu). But the standard of living was more favourable at Kisumu than at the previous residence. It may therefore be argued that the loss incurred in salary was compensated by a gain in the standard of living. Comparison of Nairobi and Kisumu explains an interesting contrast. With the high standard of living in Nairobi a person earning Shs. 1,000/- per month may be worse financially than one earning half that in Kisumu. Lover standard of living in Kisumu tempers conditions particularly for migrants originating from Western Kenya itself. This sentiment was expressed by many migrants aged 30 years and above. But younger migrants were either indifferent or openly resentful of conditions obtaining in the town. This section may be concluded by identifying the causes of migration in the words of Mitchell: "Thus economic factors are probably necessary, but not sufficient and the rate of labour migration is probably determined by economic factors, whereas incidence probably depends upon social and psychological conditions."4l

Put another way, economic factors are basic in tho decision to migrate but social and psychological conditions may cheok or intensify the frequency of migration from a given source.

Future Migration Sketch

Since migration is a continuous process in human life future migration plans are as important as present or past experience. But future migration plans are actually rough sketches which may not necessarily hold. In Table X. 3 three sketches may be identified: continued stay in Kisumu either permanently or iemporarily, outmigration to another place and uncertainty in future conditions. In both sexes out-migration at one time accounted for half the total responses followed by uncertainty in future migration. Only 13.8 per cent reported willingness to stay in Kisumu permanently. Males showed almost a similar pattern except that the second most important plan was temporary stay in the town. Married females depended more on husbands' deciaions; unmarried ones were generally uncertain about the future which would be shaped by marriage as well as other conditions. Hence a higher proportion were "uncertain about future

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plans". The following hypothesis was tested:
Ho: Tuture migration plans have no sex bias.

HI: Future migration plans have sex bias. Since the result was found to be significant at 5 per cent and 1 per cent levels H was accepted on rejection of Ho (Table X. 3a).

Future migration plans were also croseclagsified with ago of all respondents both migrants and non-migrants (Table X.4). Except for uncertain respondents those aged 25-29 years accounted for the highest proportions in the rest of the plans. Those aged 20-24 years were dominant among those uncertain about future plans. This may be attributed to their initiation in migratory behaviour which hits the peak in the 20-29 age bracket. Another interesting fact is reluctance of the 15-24 and 55-74 age brackets to stay in Kisumu for good. It may be argued that whereas the former are uncertain about future migration sketch the latter are mature enough to weigh continued atay in the town against migration elsewhere or permanent return home. Respondents staying in Kisumu until retirement were employees and wives conversant with hugbands' future migration plans. 'This is explained by non-response in the economically inactive age groups.

Of those who planned to out-migrate at one time the 25-29 age group were clearly dominant followed by those aged 30-34 years. It is interesting that this was the only future migration plan which was responded to by all informants.

Chi-square test of future migration plans by age group involved the following hypothesis:

Ho: There is no significant difference
between future migration plans for different age groups.

Hl: There is significant difference
between future migration plans for different age groups.

As the rasult was significant at 5 per cent and 1 per cent levels $H 0$ was rejected and $H 1$ accepted (Table K. 4a). At different ages in a life cycle a migrant develops different attitudes to migratory behaviour in accordance with changing physiological integrity as well as environmental perception.

## TYPOLOGY OF MIGRANTS

In order to appreciate the implications of migration in a wide range of urban activities it was

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necessary to classify all respondents. Three types were identified, namely, migrants, non-migrants and commuters. It should be noted that the last were not interviewed since they did not qualify as migrants. But it is important to discuss commuting which faces a grim future unless immediate palliatives, if anything, are adopted.

Kigrants and Non-Migrants

The typology of migrants was cross-'claosified with ethnic group, tribal affiliation, sex and age (Tablee X. 5 to 8a). Brief comments are mado on each of these.

Table X. 5 classifies migrants as temporary or permanent as well as non-migrants by ethnic group.

Typology of Migrants and Ethnicity

Temporary migrants were those who inmigrated from elsewhere or who were born in the town but expect to move out at one time. On the other hand, permanent migrants expected to stay in the town for good, In the table it can be seen that Africans are predominant in the two types of migrants. Asians are next with nearly
one-quarter classified as permanent migrants. Europeans and the lonely "other" ethnic group expect to be temporary oniy in the town, the former surpassing Asiens as tomporary migrants. $\therefore \quad$ Non-migrants were those born, bred and expecting to continue living in the town. The same sequence obscrved in the case of migrants appears in this eroup; but no Europeans and "other"sethuic group vere so classifiod. Arabs accounted for alightly more than one-quarter compared with Aaians who accounted for a little more than one-tonth of all non-migrants. Thus more intensive analysis of characteristics of Africans, Asians and Arabs is imperative for planned development of Kigumu. The following hypothesis was tested:

Ho: There is no significant difference between types of migrants in torms of othnic groupe.

Hl: There is significant difference
botween types of migrants in terms of ethnic groups.

HI was accepted at 5 per cent and 1 per cent levels. Naturally, the dominance of Africans in relation to foreign ethnic grouns is commonplace in African town and cities. Similarly their cominitment to live there is guided by

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past, present as well as future experience on the one hand and type of citizenry in the country on the other.

## Typology of Migrants and Tribal Affiliation

## African tribal groups represent rural-

 urban migrants par excellence so that olassification of them has more far reaching implications(Table X.6). The predominance of the Luo is an expected feature as has been explained in Chapter III. Temporary migrants were well diatributed according to tribal groupa. In the case of permanent migrants two tribal groups (Kikuyu and Kamba) originating outside and one (Kisii) from the Kisumu Region were not included. However, the Luhya and other tribal groups had the same proportion among permanont migrants; the proportion of Kalenjin was also higher than among temporary migrants. Apart from other tribal groups which included Swahili and Nubians only tribal groups from the Kisumu Region opted to be permanent migrants. Non-migrants were tho Luo and other tribal groups such as Swahili and Nubians most of whom had no homes other than Kisumu. Absence of other Kenya tribes in this category does not necessarily demonstrate their marginal commitment to live in Kisumu. It may be due to some biases in the sample, for example, avoidance of institutional housing units.
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In Table X. 7 the irequency distribution of migrants by sex is shown. Jigrants alone accounted for 95.9 per cent the majority being temporary compared with 4.1 per cent for non-migrants. Of male respondents 96.0 per cent were migrant and 4.0 per cent non-migrant. Corresponding proportions for females were 95.8 per cent and 4.2 per cent respectively. In order to deterinine the place of thia migration differential the following hypothesis was tested:

Ho: The type of migrants do not differ significantly by sex.

Hl: The typo of migrants differ significantly by sex.

The result was found to be significant at 5 per cent level so that Hl was accepted (Table X. 7a). Commitment to live in the town depends in the case of married persons, for instance, on the decision of the husband to which that of the wife is subsidiary. But unmarried persons have the preserve to make independent decisions to stay either tempolarily or permanently in the town. Non-migrant women were relatively stable as the majority had never lived nor looked forward to living elsewhere.

Typology of migrants vas also cross-classm
ified with age (Table X.8). The predominance of the

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25-29 can be seen at a glance in the three categories considercd. After the peak age bracket, 20-29 age group, the proportion of temporary migrants began to diminish with those aged 55 years or more having less than 1 per cent. The other category of migrants show two contrasting features. Those aged 15-24 yeara and 55 years onvards had considerably low proportions. Conversely, those within the 25-54 age brackot had higher proportions totalling to 80 per cent compared with 20 per cent of the former. Thus the very young and the very old permanent migrants had nearly identical features. Non-migrants shoued almost similar characteristics as permanent migrants. Absence of non-migrants in ages 70 years and above auggests return migration to their nomes. The following hypothesis was tested:

Ho: There is no significant difference botween ages of different types of migrants.

HI: There is significant difference between ages of different types of migrants.

As the result was significant at 5 per cent and 1 per cent levels Hl was accepted (Table X.8a).

## Commuters

Commuting is the regular journey between the place of residence and the place of work. ${ }^{42}$ In developed countries journey to work is by road (public transport and personal cars), rail or air. But in the developing countries it is mainly by road and rail the former including not oniy public transport and personal cars, but also bicycles. In this work no questions were formulated relating to commuters. From a small sample taken at places of work, commuters were identified as follows:
a. Cyclists from around the town within a distance of not more than 19 kilometers from town.
b.

Car owners from around Kisumu whose commuting depends on distance, on the one hand and road conditions throughout the year, on the other. or cabs with regular services to the town which they are able to reach before $8.00 \mathrm{a} . \mathrm{m}$. d.

Passengers travelling on Butere-Kisumu rail services who find it more advantageous to commute than to rent houses in Kisumu.


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Pedectrians whose homes are no more than 8 kilometres from the town. The first, second and fifth groups of commuters travel by the means of transport they control themselves. They are the nearest commuters to the town whose homes aro found in places such as Kano, Kisumu, Kajulu and Seme locations of Kisumu District and the southern area of Kakamega District (see Fig. 13). Most of them have been included in the newly gazetted Municipal boundaries of Kisumu. Some of these who qualified as migrants and were therefore interviewed did not geen to realise their inclusion in the new town since they still perpetuated the age-old traditional life at their homes. This: group constitutes the main ohallenge to environmental quality within and around Kisumu town.

Both the third and fourth categories commute by public traneport which they do not control. The most important transport links by road include AheroKisumu, Lwanda-Maseno-Kisumu, Bondo-Kisumu, Uyoma-Kisumu, Kakamega-Kisumu, Kaimosi-Kisumu and Busia-Yala-Kisumu. All of these are all-weather roads with murram or tarmac surfaces. The latter roads have enhanced commuter transport to the town besides evolving intra-and inter-territorial trade. This group has to weigh travelling fares


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against costs of living in Kisumu. At the monent housing problem in the town is far from acuie so that it cannot be argued that their commuting may depend on this pact. Since no town buses operate within the Municipal boundaries to servo the urban population. commuter transport is still sketchy and very unroliable. The implications of transport services within the town are taken up for analysis in Chapter V.

Summary

It has been seen that migration process involves a wide range of factors. In the first place it has been nccessary to mention some theoretical migration models which have been developed by various scholars to explain the distanco factor. But these thooretical models should not be applied to human phenomena without appropriate modifications. Conclusively, it was found that migration to Kisumu is directly proportional to the product of population between two regions involved and inversely proportional to the distance between the regions. No migrants from the Coast and North-Eastern Provinces were experienced in the sample.

Migrants vere determined by both birth-place

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and home information with more detailed analysis about the region around Kisumu town. The general observation was that most migrants reported birthplace as the same with home in which case there was no significant difference between the two. However, a few had changed the two due to migration engendered by various conditions: marriage, school attendance and so on.

Another interesting point that was investigated is migrants' contact with their homes on the basis of relations and property at, as well as visits made home since migrating to Kisumu. Return migration was found to be an important epilogue to mjgration following a migrantst letirement, loss of or failure to secure employment and like features.

Consideration has also been made to characteristics of sample households, for example, size, and their implications on migration. Some demographic parameters such as child-woman and dependency ratios as well as labour force rates have been computed from household data. There was close agreement between the findings derived from survey and census data.

Environmental conditions which induce migration have been discussed. These are basically reasons for migration which reveal interesting findings.

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when cross-classified with sex and age. Also included is the future migration sketch which involvos migrants' future mobility plans. The majority of respondents reported plans to leave Kisumu at one time.

The Chapter ends by classifying micrants into two basic typos, migrants and non-migrants. But the former are classified further as temporary or permanent. Also the place of commuters is disoussed briefly. Temporary migrants turned out to be the majority among migrants. Cross-classification of typology of migrante with other variables has onhanced further analysis of migrants in the town.

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## REFERENCES




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## CHAPTER $V$

The argument that migration is an adjustment to environmental resource base suggests interrelationship between the phenomenon and planned development. Following political independence in 1963 the Kenya Government has adopted Five-Year Development Plans and lately the spatial physical planning for all regions (Provinces). ${ }^{1}$ Basically, "planning aims at such an organisation of space that a better balance between space and society can be obtained". ${ }^{2}$ But this balance may be upset by the effects of migration which may cause environmental deterioration. This Chapter undertakes to define the Kisumu Region and to consider migration and the planning process wittin the region.

## THE KISUMU REGION

The term Kisumu Region has been used so frequently in the previous chapters that i,ts connotation in the context of this work should now be explained. In many geographical studies the word "region" lends itself to numerous interpretations and easily leads to confusion
unless defined properly. This section covers two items. First, several indices are mentioned so as to delimit the region. The main purpose for this is to demonstrate the unity of the region focusing on Kisumn town. Second, 8. brief discussion is made of migratory bohaviour in the region as well as in other parts of Kenya.

## Indicos of Delimitation of the Region

Geographers delimit regions on the basis of various factors. Dickinson dafines a region as an area which is homogeneous in reapect of some particular set of associated conditions, whether of the land or of the poople e.g. industry, farming, the distribution of population, commerce, or the goneral sphoro of influence of a city. ${ }^{3}$ The underlined characteristics Here particularly relevant to dolimitation of the Kisumu Region. Ominde has divided Kenya into five population regions, namely, tho Lake Victoria Basin which focuses on Kisumu town, the Rift and Agsociated Highlands, the Eastern Plateau Foreland, the Coastal Region and the Southern and Northern Drylands of Kenya. ${ }^{4}$ A striking feature is the similarity of these population regions to the major geographical divisions of the country. The sphere

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of influonce of a oity is explained by Dickinson as follows:
MThe metropolitan (city) region thus
considered is primarily a functional entity,
Geographically it extende as far as the
city exerts a dominant influence. Its
influence is effected in its environs
by a radiating system of traffic routcs,
eaoh of which, in its turn, is a local
centre of radiating routes through which
it, rather than the metropolis, becomes
the dominant centre for local affairs". 5
This hioxarchical doainance of polarised contres of development is evidence of the hierarchical nature of apatial physical planaing in a region. In Fig. 26 it can be ceen that Kisumu is by far the dominant metropolia in a large region interconnected with traffic routes. Add to the tho indicos are commerce and industry in which the dominance of Kisumu in the whole of Nest Kenya needs no emphasis.

Beaujeu-Garnier and Chabot note that the interdependence of a city and its region is due to commodities yeouliar to each. 6 This may be explained by industrial base of a oity on the one hand and
agricultural base of its region on the other.
Waller and others stated that the city of
Kieumu already conetitutes a dominant core for the whole Hest Konja with trado connoctions reaching overy part of the region. 7 They recognised Kisumu Rogion as encompassing the area whose economic activities (eig. Bank connections, wholesale trade) are directed more towards Kisumu than towards other central places of the same order. ${ }^{8}$ But as they asserted the line demarcating the Kisumu Region will have to change with time as the town continues to expand.

Another index of deliniting the Kioumu Region is the demographic characteristics of the whole Lake Victoria Pasin population region. In the first place there is genorally a high density of population particularly in Bunyore and Maregoli locations in Kakamega District, much of Kisii District and a few isolated paris of other districts in the region (Fig. 13). Also, the distribution of population in the region distinguishes it from other population regions as can be noticed in Fig. 2. But perhaps the most gignificant demographic characteristic is out-migration which is caused by the hostile environment along the lakeshores, population pressure in the densely populated parts and
longstanding sophistication of migratory bohaviour among the inhabitants.

From the foregoins discussion it can be geen that a wide ranse of indices may be ueed to dolimit the Kisumu Region. The only urban centres that may encroach on the region are Eldoret and Nakuru which are situated in a different population region. Envisaged cxpansion programmes shor that the pesition of Kisumu among central places of the same order is likely to remain potent and unaffeoted.

## Migratoxy Bohaviour in the Region

Like other "downward transitional" regions in Kenya, the Kisumu region is best known for outmigration of population to other parts of the country. But on a regional scale the town experienoes net inmigration from the surrounding districts. For example, in a survey made by Hoock among school students in Maragoli 28 per oent of boys and 24 per cont of girle expected to search for omployment within a 40 kilometres (25 miles) radius of their home, the Vihiga-KakamegaKisumu complex. ${ }^{9}$ ? Although these potential migrants expect to move short distances only, it has been found

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that they move iarther afield to places such as the commorcial farning areas in the Kenya Highlands, and to urban centres such as Nairobi and Mombasa. This is actually true with all school-lcavers who usually swell the flood of migrants within and outside the Kieunu Region. Out-migration from ths region dates from the oiroular of the Chief Native Commissioner of October 23. 1919 paragraph 4 which undertook to recruit Afrioan labour for the sottlers. ${ }^{10}$ This stage laid the foundation of voluntary migration anong differont poople who vanted to satisfy their varied aspirations. For a long time, therefore, the Kisumu Region has beon the moat significant labour ressrvoir in Kenya to the detriaent of the region's development.

## MIGRATION ANI THE PLANNING FROCESS

## The spatial planning process in Kenya

 recognises two areas of emphasis. It taken cognizance of the interdependence of polarised centres of development and the regions around them. Urban planning concentrates in the urben community in order to improve the quality of urban environment which is very susceptible to deter1oration. On the other hand, regional planning has beon
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- 205 - launched to correct imbalances resulting from irrational location of central functions at different areas in a region. ${ }^{11}$ This imbalanoe emanated from differmatial modes of modernisation at the onset of colonial rule when the administration, missionaries and other institutions each located a central function at different sites. Therefore, it is necessary to discuss issues involvod in migration and the planning prooess in tine Kisumu Region. These include facilities in the town, resource base of the ragion, effects of migration, the role of Kisumu in modernising the econony of its region and comprehensive physical planning of metropolitan Kisumu.


Facilities in Kisumu Town

Tho personality and quality of an urban community depend upon the facilities utilised there in. To find the position of this in Kisumu town questions were asked about adequacy or inadequacy of five basic facilities, namely, medical; sohools, housing, recreation and transportation. As migration is the major cause of accelerating urbanisation within national boundaries, it poses serious problems to public health.

## Situation of all Facilities

All the five facilities were examined as to their adequacy or inadequacy in all the twenty samples areas (Fig. 24). Respondents through their experiences had to state whether these facilities served them well or required impovements. At Mimani and Patel Flats and Kibuye the facilities were generally considered adequate. But in the rest of the housing estates in stratum $A$, they were inadequate with Shauri Yako reporting nearly one-fifth of the facilities to be inadequate.

In the sample areas comprising stratum $B$ the facilities were adequate only at Makasembo and-Arina. The rest of the housing estates reported inadequacy of facilities. This stratum was dominated by the African population as compared with stratum $A$ estates which were occupied by different races, the Africans there belonging to a higher socio-economic group. The latier could afford the expensive facilities not provided for by the Municipality of Kisurn.

Of the eight housing estates in stratum $C$ half ${ }^{\prime}$ reported adequacy and the other half inadequacy of facilities. Nyalenda reported the highest proportion of inadequate facilities. Whereas Kaloleni is well catered for by its situation within the residential belt of the town, Nyalenda suffers from its location in the urban-rural fringe where the urban government is less committed in matters of development.
fig. 26 situation of all facilities by sample areas


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## Situation of Specific Facilities

Perhaps the situation of facilities in the three strata may be best understood by anelysing each of the five facilities. This is shown in Fig. 25.

Stratum A

In this stratun three of the five facilities were adequate. Nedicel facilities were by far the mont adequato followed by schools and housing units in that order. As the majority of people here could afford expensive medical facilities as well as schools and lived in the largest housing units they did not seem to experience any problems. Even the situation of recreation did not raise much concern as evidenced by the small discrepancy in response. The most inadequate facility was transportation.

## Stratum B

The lower middle group were found in the hoursing estates which constitute stratum B. The only adequate facilities were medical and transportation,

FIG. 25 SITUATION OF FACILITIES IN THE TOWN BY STRATA



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However, the rest were significantly inadequate. Adequacy of transportation in this stratum is a surprising feature as respondente did not atate reasons for that. Perhaps it might be attributed to the relative accessibility of housing estates in this stratum to work places in the town.

Stratum $\mathbf{C}$


Apart from housing units and recreation, the other facilities were generally inadequate in this stratum. Transportation is among the most inadequate faoilities; the most inadequate facility, however, was medical. This demonstrates the extent to which heal th hazards can undermine the quality of the population in this stratum. As these are high density areas any epidemic is likely to claim numerous casualties. Schools were also inadequate; this stratum had the smallest number of schools particularly in the former perim urban area.

Chi-square analyses of the situation of
all facilities in the town as a whole and in individual sample areas confirm the foregoing findings (see Tables XI. 1 and XI.2). In the first table the following

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hypothesis was tested:
Ho: Tho facilitiee are generally adequate in the town.

Hl: The facilities are generally inadequate in the town.

Since the result is significant at the two levels, $H 1$ was accepted. In Table XI. 2 the hypothesis tested was:

Ho: There is no significant difforence
in the situation of facilities
betwoen the sample areas.
HI: There is aignificant difference
in the situation of facilities
between the sample areas.
The result lod to accepting $H 1$ at 5 per cent and 1 per cent levels of significance. The difference in the situation of facilities is in itself reflected by the basic differences between the strata.

These findings call for immediate action by the Municipal Council of Kisumu. The new parts of the town require alignment to other parts in terms of development. Transportation must be given top priority as a medium of improving accessibility of different parts of the town. Othervise, commuting will be most hard hit as more and more people continue to adopt it.

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## Resource Base of the Kisumu Region

Resources of the region must be considered in the context of its development potential. Basically, this is an agricultural region in which peoplo have the alternatives of selling their surplus food and livestock, producing cash crops or out-migrating to other areas to seoure employment. ${ }^{12}$ But a feu. pocketo of foreste are found in the high rainfall areas of Kakamega District and on the slopes of Mt. Elgon in Bungoma District. These ere sparsely settied since they are secluded areas. Agriculture which depende on climatic endowments, physiographic features and level of farming commitment may be summariced as follows: a. Food crops grown mainly for subsistence but the surplus sold elsewhere.
b. . Cash crops for export trade. c. Settlement schemes in which farmers grow cash crops and/or keep livestock. d.

Special Rural Developnent Programmes (SRDP) aimed at ameliorating rural economy. Several food crops are produced in the region. Along the lake shere where rainfall is generally poor and unreliable such crops as millet, beans and pean,
sweet potatoes, cassava for famine relief and a littlo maize are produced. The higher parts of this zone produce two crops per year during the long and short rains respectively. Nuch of Nyanza Provinco and Busia District of Western Provinco falls within this zone. In the higher rainfall areas found mainly in Kisii, Kakamega and Bungoma District crops such as maize, potatoes, bananas and quick-ripening crops predominate. Most of these crops are transported daily to Kisurau and other urban centres for sele.

Cash orops heve recontly been popular with most farmers because of their higher monstary returns. The low-lying lake shore districte produce cotton, groundnuts, sisal and some sugar cane. But the diminishing acreages betray possibilities for expansion. Also, climetic hazards limit farmere' aspirations to dedicate thomselves to farming as the sole source of income. Thus farmers have to weigh returns from these against minimum wages they might receive in urban employment. Since population prossure adversely affects the dovelopment potential of this part of the Kisumu Region, inhabitants have no alternative but to migrate to other places. The higher and better rainfall areas of the region produco cash crops such as coffee, pyrethrum besides keeping grade cattle.

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But this economic base cannot withstand population pressure which is greater here than in the low-lying parts.

In order to improve agricultural economy in Kenya several settlement schemes have been set up in different parts. The most significant in the Kisumu Region is the Muhoroni-Chemelil-Koru complax which with Misani form the largest augar-belt in Kenya. In plaoes such as Koru and Songhor maize is an important orop which supplements livestock produce. This complex will be an integral part of the larger metropolitan Kisumu in the near future. Prosently it is an important inmigration area which attracts migrants from the neighbouring locations. 13 Fig. 26 shows them as resource based industrial centres together with the Mumias sugar sohemes and the Hobuye (Broderick Falls) Paper Mill industry. Also included in this category are the Kano Plains irrigation schemes for rice and the Yala swamp Reclamation project which will soon produce rice among other crops. These two areas have experienced flooding of the rivers Hyando and Yala which have wrought much havoc in the area. Smaller sottlement schemes include Luhya schomes in Western Province.

The SRDP was born in the follow-up discussions of the 1966 Kericho Conference on education, employment


FIG.26 FUTURE DEVELOPMENT PATTERN OF THE KISUMU REOION.
and rural development. There are 14 SRDP projects in Kenya of which the Kisumu Region has two at Migori and Vihiga in South Nyanza and Kakamega Districts respectively. However, it is too early to make any meaningfial appraisal of these projects.

Although settlement sohemes and SRDP projects wore intended to dam floods of rural-urban migrants, they have not actually contained out-migration. In nome ways, however, migrants have moved to them because of their quasi-similar roles to towns. Mabogunje argues that the extent to which pressure on the low level of resource base is felt is a function of population density but more so of the level of expectations. While a high level of expectations engenders a wholesome response to the need for economic advancement, a low level of expectations leads to a break-down of socioeconomic conditions. ${ }^{15}$ In a society like the Kisumu Region where education levels determine the level of expectations the two end-products are experienced. Thus while some people out-migrate so as to meet their oconom mic goals, others remain sedentary in a deteriorating economy. All in all, Kisumu town acconmodates a complexity of resources which raise the level of migrants' expectations; hence its dominance as an arear of in-migration.

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Effects of Migration

The effects of migration may be considered at both the sources and the destinations. Ominde has analysed the consequences of rural-urban migration in Kenya rural as well as urban areas. In the rural areas he notes that out-migration may be a weloume relief to areas such as the Kisumu Region which experience population pressure; it may create a definite demographic pattern in which there is femalo dominanco in the supplying and male dominance in the reoejving areas; and may result in poor housing conditions due to absence of out-migrants working elsewhere. In the urban areas the consequences include the need to expand urban facilities such as education, water supply, hospitals, dispensaries and so on which are generally chocked as a result of an influx of rural population. ${ }^{16}$ These are real constraints on the quality of urban environment which require immediate solutions in the process of urban and regional planning.

Sometimes the length of migrants' absence from their rural homes has serious repercussions on the home econony. As Miraole and Berry put it:
?!Tus the effects of a migrant's absence

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on production length of his absence is adjusted to the time partern of the home economy's demand for his labour. This demand depends in turn on a combination of ecological, technical and institutional factors. 117

In a place such as the Kisumu Region where the home economy rests heavily on the efforts of the residual population the result may be stagnation since this rosidual population consists predominantly of women and conservative old men who do not adjust readily to modern modes of development. Population pressure on the development potential of the region makes it a significant "downward transitional" region from which populations migrate to "upward transitional" regions such as the Kenya Highland farming areas and to "core" regions or urbanised centres of development. ${ }^{18}$

It has been argued by Friedmann that urban unemployment acts as an automatic stabilizer upon the rate of cityward migration. ${ }^{19}$. But this depends on migrants! awareness of unemployment in their prospective urban destinations. Moreover, migrants often prefer staying in urban areas where it is easior to secure some casual work such as in the construction industry than

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staying in a rural community where much uncertainty prevails.

Thus offects of migration are multifarious at the tivo poles, source and destination. They demonstrate the intricacy of the phenomenon while croating some definite demographic patterns at the two poles. In any planning system these effects have to be examined in order to ascertain their implications on planned dovelopment.

Comprohensive Physical Planning of Ketropolitan Kisumu

Although further expansion of Kisumu town is envisaged, four physical boundaries may undermine this. These include the Lake Victoria to the West, a government sponsored agricultural irrigation scheme in the Karo Plains to the South and East, a high potential sugar plantation area in the Miwani-Chemelil-Kuhoroni complex to the North-East and an escarpment which rises about 457 metres $(1,500$ feet) to the North. 20 With the town's future expansion geared toward the North and North-East it is expected that an extensive metropolitan region will emarge.

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Kisumu Region on both short-tern and long-term bases seems most appropriato for the region. Comprehensive plenning is a "striving for the total velfare of tho public so far as living conditions are affected by and through the physical environment, rather than a partial or sectoral welfare ... or to the urban and regional economy alone, or any other aspect of life taken in isolation. 21 Data required for regional planning consist, inter alia, of the growth of population, investment in major sectors of the economy and inter-regional transport system. Intercensal growth rate of population between 1962 and 1969 counts was 3.7 per cent per annum for Nyanza and 4.0 per cent per annum for Western Province or 3.8 per cent per annum for the whole Kisumu Region. These ostimatcs conceal two extremes estimated for Siaya and Busia (2.4 per cent) on the one hand, and Kisii ( 4.8 per cent) and Bungoma ( 6.4 per cent) on the other. ${ }^{22}$ Districts With higher out-migration rates thus show lower growth rates than those vith lower out-migration rates. Future population projeotions for the region depicts a grim situation in an area where little investment has occuryed. The future development pattern of the Kisumu

Region is explained by Fig. 26. Inclusion of the two provinces indicates the fact that political boundaries do
not destroy its unity evidenced by the realities of the physical environment. The figure shows Kisumu as occupying the highest position in the hierarchy of growth centres. It is followed at a lower level of the hierarchy by such urban centres as Homa Ray, Kisii, Kakamega, Busia, Bungoma and Mumias all of which except the last are district headquarters. Siaya is not thus shown as, though a district headquarter, it is rolatively less developed than its counterparts. Rural growth centres which include divisional headquarters, big markets down to the local centres at the base of the hierarchy are by far the majority.. Continued development of growth centres_micht diversify migration flows from the rural parts. Furthermore, it may alleviate constraints imposed by migrants who currently congregate at Kisumu as the most attractive destination.

Kisumu has for long been and may continue to be the core centre from which modernisation diffuses to all parts of its region. As transportation network improves accessibility will be enhanced in the region to the benefit of both urban and rural inhabitants alike. Many development planners believe that whereas urban populations are much more responsive to innovative actions, the rural areas are the repositories of traditional and
traditionalistic modes of behaviour and attitudinal: structure. 23 Comprehensive planning may well blur the boundaries between these two district poles and harmonise devolopment of the whole metropolitan region.
Summary
This chapter focused on two things, namely,
definition of the Kisumu Region and mjgration and the
planning process in the region. Several indices used
to delimit the region confirmed it as an entity irres-
pective of political boundaries. Thus the region is a
logical unit for planning purposes taking Kisumu as the
foous. A general feature of migratory behaviour here
is out-migration to other areas of Kenya with a small
proportion of migrants going to Kisumu town. For a long
time this region has been a significant labour reservoir,
an attribute which has undermined its development. Migrants
consists of the younger able-bodied and more developeent
conscious stamp of the population. But the residual
population comprises women and old conservative men who
perpetuate traditional modes of economy when they should
be accepting innovations. Planning has been adopted mainly to correct
imbalances resulting from irrationel location of central functions guided by the defunct colonial policy. A probe was therefore made into the situation of facilities in Kisumu town and the resource base of the Kisumu Region. Facilities in the town were generally inadequate especially medical facilities and transportation; the areas least endowed with the five facilities - medical, schools, housing, recreation and transportation - were the housing units comprising stratum $C$. The region's main resource base is agricultural activity. But it is plagued with several problems, for example, diminishing acreages at the face of a rapidly growing population. Also, agricultural economy is susceptible to environmental hazards such as poor and unreliable rainfall, soil erosion due to overstocking and so on.

Solution to the development of metropolitan Kisumu may be possible through comprehensive physical planning. But certain physical boundaries limit expansion of the town along the North-Fast corridor. Thus a bigger metropolitan region of Kisumu may develop toward the Miwani-Muhoroni-Chemelil area thus reinforcing its role in the modernisation of its region.

## REFEREHCES






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## SUMMARY AND CCNCLUSIONS

Although this study portrays the diverse features of rural-urban migration, it should be noted that this was not the main interest. Rathor, emphasis was on the situation of migration aithin Kisumu town. This Chapter is thorofore an opilogue to the study in that it summariges and draws conclusions to the main findings.

Kisumu town is the largest urban centro in West Kenya and the third in Kenya after Nairobi and Mombasa. It.is the focus of the Lake Viotoria Basin population region, and the commercial and industrial centre of Western Kenya. Three main phyoiographic unite may be identified in the lake Basin, namely, the lowlands and the Nyanza Rift Valley along the Lake shores; the plateaus yhich are relics of an ancient peneplain; and the highlands which comprise Mt. Elgon and the Kisii Highlands among others. Rainfell amounts and reliability improve with altitude in this region; the worst hit areas are the lakeshore lowlands. But the higher rainfall areas are too densely populated to provido adequate food and other subsistence requirements for the population.

Lake Victoria Basin is among the most
important population regions of Kenya. Its significant demographic characteriatics include a rapidly growing population with a much slower pace of economic development lagging behind it, diminishing man-land ratio and outmigration. Wallev classified it as a "downward transitional" region where out-migration might relieve the situation. The Luo and Luhya tribes who dominats this region are also the most migratory of the Kenya Africanc.

Migration studies in Kenya have been on a national scale at the expense of probing into regional atudies. This study was intended to analyse the migration system of Kisumu on a regional as well as national basis, to determine the feasibility of the survey by questionnaire method, to highlight the effects of migratory behaviour on the resource base in and around Kisumu town and to attempt forward projection of the demographic vis-a-vis urban and regional amenities in and around the town. But the last objective was not met as the data collected did not permit useful demographic projections. For example, no data was collected about fertility and mortality which together with migration affect both population structure and change.

Several hypotheses and models nere tested.
However, only implicit discussions of the potential and
gravity models could be made because these two models best fit data pertaining to inter-regional spatial interaction of phenomena. As the rural component of rural migration was inadequately probed into inter-regional migrations could not be ascertained. This migration study was unidirectional, all movements originating outside but terminating at Kisumu town.

Throughout this work migration connotes a change of place of residence for some particular reason or set of reasons. Previous research and literature about migration are too many to permit easy analysis. They demonstrate the popularity of this phenomenon in demographic, economic; social and even political studies, let alone its complexity. It should be realised that the survey was confined to the old and parts of the new (former peri-urban area) of the Nunicipaiity of Kisumu (see Fig. 4). A much bigger area remained unsurveyed. Kisumu is a big town with an interesting dichotomy. Fig. 4 shows that the town proper which was covered in the survey is only a small part of the 260 square kilometres taken by land area. The larger part comprises the newly adciod sub-locations in which agricultural activity and other modes of traditional living predominate. Intervielling respondents was
preferred to other data collection techniques due to its many merits. These iuclude adaptability of the method to prevailing circumstances, high response rates and minimal non-response. The method proved suocessful and must be recommended for any similar studies in future. Prior to the start of the survey pretesting of the draft questionnaire and pilot studies were made in order to nake any necessary modifications ihat would have frustrated the survey. The two forms of preliminary arrangements were of vital inportance; pilot studies enriched the author's knowledge of the town and proved useful for sampling purposes.

Probability sampling procedure was adopted. In this all items in the universe have known chances of being aelected in the sample. Random element makes them have equal chances of selection. Both stratified random and systematic sampling were applied. The town was divided into three atrata $A, B$ and $C$, which reflected socioeconomic status, differential house rent and occupancy rates. Sample areas in which rents were high, medium and low were respectively low, medium and high density areas. Systenatic sampling was particularly useful in the unmapped parts of Kisumu such as the former periurban areas in which it was difficult to identify sampling

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units for interview. Of several sampling frames that could be used housing estates (here called the sample areas) were most appropriate. In each of these housing estates housing units whose occupants were interviewed constituted sampling units. Uniform sampling fraction was adopted in selecting all samples; the total sample sizo of 696 respondents represents 25.1 per cent of the universe from which samples were drawn. Of that number 568 successful responses were recorded and it is these that form the basis of this work.

Enumeration in the town took place between April and June, 1973. Six male enumerators were chosen on the basic of good command of Luo, Swahili and English languages, proper knowledge of Kisumu and ability to find own accommodation during the survey period. No spectacular problems were experienced with enumerators during their training as well as in the course of enumeration. Apart from relatively poor response rates at Mlimani and Obunga-Kudho sample areas, all other areas recorded very good response rates. It was later realised that Asian enumerators should have been engaged in the survey as they would have been more acceptable to Asian respondents who were generally suspicious.

The whole process of data manipulation was done mechanically by the author. This was due to high expenses quoted for punching and computerization. Thus data processing, editing, coding and tabulation took about
three months to accomplish. Two machines were used for calculation, namely, the electronic Facit and programmable printing calculator.

Chi-square technique was used in testing certain hypotheses about different variables (see Appendix G). But those hypotheses should not be confused with research hypotheses which harness certain theoretical conceptions. In order to assess the sucoese of the survey a post-survey evaluation of the questionnaire was made. Some questions were simple and created no problems of interpretation. A few asked for too confidential information to be acceptable to respondents. But stress on anonymity and treating all answers as confidential induced respondents to co-operate with enumerators. In the finel analysis, data collected was dependable and rendered the survey successful.

The othnic structure of Kisuma town does not paint a different picture from that of the 1969 census. In numerical importance the major ethnic groups are the Africans, Asians, Arabs, Europeans and others not so classified. Africans alone represent the major ethnolinguistic groups in Kenya, namely, Nilotics, Bantus and Nilo-Hamites. A marked feature is the absence of tribal groups resident in Coast and North-Eastern

Provinces. The Nilotic Luo are by far the majority, followed by Luhya and Kilsuyu. These three are the most migratory of the Kenya tribes. Relative sedentarism of the Kisii and Kalenjin tribes was realised through their small numbers in the town. A few Uganda tribes and one Tanzania tribe were covered in the survey. However, it vas observed that there is little ethnio and tribal diversity in the town. Dominant ethnic and tribal groups contrast sharply with others.

> Basic migration differentials include sex, age, marital status, educational attainment and economic activity. Three-quarters of all respondents consisted of males. This does not necessarily explain masculinity in the town since most heads of families interviewed turned out to be males. However, a demographic anomaly was experienced at ages $0-4$ and $5-9$ years where females dominated. The usual situation is male dominance at these ages because male and female births are in the ratio of 105 to 100. This anomalous situation is therefore attributable to age misreporting for the two sexes. Those aged 20-34 years accounted for 63 per cent of all ages. There was significant difference in age distribution of respondents. Considering all the marital status it was found that married persons staying together with their spouses

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in Kisumu accounted for 69.8 per cent of the total. This suggests that simultaneous migration is a significant feature of Kisumu migrants although it is possible that split migration may be very important. Younger migrants showed a tendency of staying with their spouses in the town unlike older ones whose frequent visits home befitted their spouses' stay there. There was significant difference in marital status of the two sexes.

Educational attainment enhances the propensity to migrate to urban centres where job opportunities exist for educated labour force. Whereas those aged 25-29 years had the highest educational attainments, those aged 45-49 were most outstanding among respondents who did not state their education or were illiterate. Those who attained upper primary education accounted for 42.6 of all other educational categories. Three main findings should now be echoed. First, educational standards were found to decrease with the age of respondents, the younger migrants being better educated than their older counterparts. Second, females had generally lower standards of education than males due to frequent drop-outs from school. Third, a marked cleavage in educational standards was observed between migrants and non-migrants.

Economic activity was by far the most complex item in the study. It embraces occupational characteristics, chief employers, income levels, sex and age-specific economic activity rates and employment situation of respondents. It was evident that the majority of migrants changed their economic status after migrating to Kisumu - from unemployed to employed, from school pupil to employed and so on. This confirms the force of attraction exerted by employment. Further, respondents were classified into nine occupational categories, professional, clerical, craftsman, salesman, agriculture, fishing, domestic worker, manual, other and unemployed. One-fifth of all categories consisted of professionals. But the number of unemployed persons was suspiciously small; apparently some respondents feared that those who indicated that they were unemployed would be repatriated back home as provided for in the Vagrancy Act. Only 2.3 per cent of the respondents were unemployed job seekers. The professional and clerical categories were dominant in strata $A$ and $B$ as well as the Nairobi area of stratum C; they comprised the group of those who held responsible positions wherever they were employed. Those classified as "others", mainly school pupils and housewives, were well distributed in
the town. The rest of occupational categories were found mainly in stratum C. Chief employers in Kisumu town ware Government of Kenya, Nunicipal Council of Kisumu, East African Community, Teachers Service Commission and the private sector. Also, there was a fair proportion of OAW particularly resident in stratum $C$, half of them being non-migrant. Private sector was the most jmportant of all the chief employers in Kisumu town. One-fifth of Kisumu residents earned shillings 1,000 or more per month; some 79.5 per cent of the total earmed below that income. In terms of the three strata into which the town was divided income levels reflected different socio-economic groupings. More than half of all respondents who had incomes of shillings 2,000 or more per month were in stratum $A$, followed by stratum $C$ which had a sizable proportion of own account workers who generally had high incomes. Again, more than half of those in the shillings $700-999$ income group were reported in stratum $B$, the middle income group. Lastly, more than three-quarters of those in the shillings 200-299 income group were in stratum C. It can be seen that stratification of the town had many things to commend it. It was also found that employment situation in the
town had sex bias; the fomaled were generally not employed. Economic activity rates were rather deceptive, the highest rates being reported in the 60-64 age eroup and the lowest among those aged 15-19 years. On probing into móbility preference of migrants based on economic activity it was found that more than half wished to rotain present occupations in Kisumu. However, younger ages wished to move elsewhere on promotion or even without it.

Spatial migration system of the town involves analysis of migration and distance, birthplace and home information within and outside the Kisumu Region, mobility characteristics of migrants and environmental conditions. Also, migrants are classified according to their stabiligation in the town.

Since Ravenstein published his Laws of Migration in 1885 a spate of literature has followed to this end. His view enunciated what his analysts have called migration models, both deterministic and probabilistic. Deterministic migration models include potential and gravity models. This study was not appropriate for testing the two models which best fit interregional migration.' Analysis of migration and diatance in this study confirmed certain tenets of the two models.

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For example, the inverse relaiionship between migration and distance was confirmed as Table VI.I shows. Probam bilistic migration models like the foregoing are derivatives of physical phenomena as well as theoretical mathematical considerations; migration in the latter context is regarded as a stochastic process. But the major weakness of these analogues is that human behaviour cannot be controlled in the same way as physical phenomena by making certain factors constant. Man is not passivo to his environment. Rather, there is a reciprocal influence between the two.

More responses were reported on home than on birthplace information. This is because some people having been born outside their home areas later went or Will go to live in the latter. Also, some foreigners born outside Kenya have now become citizens. The dominance of Nyanza Province in both types of information confirms the argument that provincial migrants are the majority at provincial headquarters. Siaya'District of Nyanza Province had the highest number of migrants of all Kenya districts; it has one of the highest out-migration rates in the country. It was evident from analysis of birithplace and home information that Kisumu town is the population potential of the Kisumu Region irrespective of
political and ethnic boundaries. Two different factors seem to be responsible for out-migration in the region: environmental hazards experienced in Siaya, Kisumu, South Nyanza and Busia districts and population pressure in Kisii and Kakamega districts. The phenomenon is only minimal in Bungoma District.

Between 1968 and 1972 thero had been significant difference in the residence of respondents. Those who had made previous urban moves were mostly migrants but nonmigrants seemed relatively sedentary. The period 1960-69 saw the highest proportion of in-migrants. However, the majority of temporary migrants arrived into the town in the two decades between 1940 and 1969. It appears that the peace which reigned after World War II gave stimulus to rural-urban migration. - On arrival in the town most migrants stayed with friends and relatives before establishing themselves to set a basis for further chain migration.

Migrants had a tendency of visiting homes during leave/holidays, weekends or irregularly. Only onefifth of the total had never visited their home since migrating to the town. There was a significant difference in visits home between age groups, older people being the more frequent visit makers. Migrants from the Kisumu Region showed continued contact with their homes.

> Household data were used in computing some

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demographic parameters. These include sex ratio, age ratios, child-woman ratio, dependency ratio and labour force rates. The findings did not differ greatly from studies carried out by other scholars. Age-sex pyramids reveal certain defective features of data collected; the most notorious was age statistics.

Environmental conditions have an important bearing on migration. They include reasons for migration and future aigration plans of individual migrants. The former consisted of eoonomic factors which were easily identified and the more amorphous non-economic (psychological, social and other personal) factors. Unemployment was particularly rife among ages below 30 years. ...Though the operation of "push" and "pull" factors was recognised it was difficult to ascertain the singular or combined influence of the two. Future migration plans had three features: continued stay in Kisumu, out-migration to another town and uncertainty in future conditions. Those aged 25-29 years preferred out-migration to other places but the 15-24 and 55-74 age bracketa were reluctant to stay permanently in the town. Only 13.8 per cent of the total were classified as permanent migrants. Two conclusions may be drawn to this item. In the first place, future migration plans have sex bias; married females
have subsidiary plans which depend on the husbands' deoisions. Secondly, there is significant difference between future migration plans for different age groups. Respondents were classified as migrant (temporary and permanent) and non-migrant. But observations have also been made about commuters. The majority of foreigners ranked as temporary migrants. Of the African tribal groups Luos dominated the category of permanent migrants and non-migrants. Significant differences Nere found between the type of migrants on grounds of ethnic, sex and age. Commuters constitute a diverse group comprising pedestrians and cyclists travelling the shortest distances; car owners; and passengers travelling by public road transport or by rail. Their increasing importance paints a gloomy picture of transportation in the new town.

Urban and regional planning has been adopted in Kenya to correct certain imbalances in the distribution of central functions and to determine rational utilisation of space. The Kisumu Region whose boundaries cover both Nyanza and Western Provinces is an area where rational planning might solve some environmental hazards currently encouraging out-migration. Several indices used to determine the compactness of the region proved very useful.

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Waller and others hava classified it as a "downward transitionsl" region from which inhabitants out-migrate to the "upward transitional" and "core" regions. For a long time it has been the major labour reservoir of Kenya. The situation of five facilities in the town, namely, medical, schools, housing, recreation and transportation, was considered to analyse urban planning. Medical facilities and transportation were inadequate; most respondents in stratum $C$ reported all facilities to be generally inadequate. Perhaps a more detailed inventory of all facilities in the town would have been more informative.

Agricultural activity is the dominant resource base of the Kisumu Region. But in much of the rogion it is precluded by environmental hazerds such as unreliable rainfall, floods in the lov-lying ereas and so on. Industrial activity is becoming increasingly important with progiess made in the sugar belt, the Murnias sugar scheme and the Webuye (Broderick Falls) Paper Mill. They are likely to dam streams of migrants that are currentiy directed to 2 few places outside the region.

Migration adversely affects rural economy. It deprives rural areas of the most educated, young and

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most development conscious breed of the population. In the urban areas, on the other hand, it imposes strains, and strcseas on the developmental base, thereby resulting in overcrowding explained by inadequate facilities, traffic congestion and the like. But returned migrants have a positive impact on modernisation of rural economy. By adopting comprehensive physical planning the problems posed by migration may be solved in the region. This requires data on the growth rate of population, investment in major sectors of economy and intcrregional transport system. It is apparent that "grass root" planning, which involves incorporating public, private and peoples' interest, has not evolvod well in this as in other regions of Kenya. With Kisumu as the focal point this region is logical enoush as a planning unit without regarding the political boundaries between the two provinces as watertight.

## Ganeral Conclusions

The main general conclusions may be summarised as follows:

1. The majority of Kisumu migrants reported their birthplace and/or homes in Nyanza

Province.
2.
6.

Kisumu is the population potential of. Western Kenya irrespective of ethnic or political boundaries. Only distance factor influenced migration intensity to the town from districts in the Kisumu Region. Migration is directly proportional to the product of the population of the two regions involved and inversely proportional to the distance between the regions. Any slight distortions that occurred were due to certain biases of the sample. Migration intensity decreases with the age of migrants and hits the peak in the 20-29 age bracket.

Educational attainment tends to increase peoples' propensity to migrate to urben areas where there are bettor job opportunities. Economic reasons were by far the most significant causes of migration though respondents might have migrated for certain non-economic reasons.

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Recommendations for Future Research

This study widened the author's horizon on rural-urban as well as other aspecto of migration. To this end some recommendations have been made regarding future fields that could be explored in migration studies. However, these should bo treated as illustrative rather than exhaustive.

It seems that migration surveys of other major towns in Kenya, Nairobi, Mombasa and Nakuru, is long overdue. Hitherto, emphasis has been placed on rural-urban migration to the major towns without probing into demographic and other charactoristics of migrants within them. Such surveys should be multi-purpose in order to cater for various disciplines which partake of this complex phenomenon: geography, economics, sociology, political science and so forth.

Also, detailed studies of migration sources have been lacking. Some of the "push" factors have only been assumed by scholars without collecting data pertaining to views of rural inhabitants. By collecting data about those who have already migrated to urban centres only academic conjectures can be made about their origins. This is an area which would illuminato other features

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of rural economy and which would be most useful to rural planners.

Theoretical migration models have been constructed in many countries. In Kenya, scholars including the author have merely felt thresholds of these models. Mathematicians, staticians, regional analyste and others should endeavour to test these models.

Current influx of schoolmleavers into towns explains the importance of education among other migration differentials. For this reason, research on migration needs to be linked with research on education for policy analysis. Both academicians and professional educational planners could co-ordinate their efforts to exhaust this field.

Last, but by no means least, research on migration should be integrated into polioy analysin in general. For instance, implications of migration should enhance formulating policy toward population distribution and industrial decentralisation. In developing countries industrial decentralisation has been popularised as $\&$ means of improving rural econony thereby discouraging out-migration.














| - | 262 |
| :---: | :---: |
|  | 2 . - |
| Ominde, S.H, and | - Demographic Aspects of Regional |
| Odingo, R.S. (1971) | Inequalities in Kenya, Commi- |
|  | Bsion on Regional Aspects of |
|  | ,Economic Development, Brazil. |
| Oucho, J.O. (1972) | - The Geography of the Port |
|  | of Kisumu. Unpublished B.A. |
|  | Dissertation, Department of |
|  | Geography, University of |
|  | Nairobi. |
| Porter, R. (1956) | - "Approach to Migration |
|  | Through its Mechanism". |
|  | Geografiska Annaler, Vol. 38, |
|  | pp. 317-343. |
| Pyko, R. (1955) | - The Statistical Theory of |
|  | some Population Migration |
|  | Models, M.A. Thesis, Mathema- |
|  | tics, University of Washington. |
| Ravenstein, E. G. (1885) | - "The Laws of Migration". |
|  | Journal of the Royal Stati- |
|  | stical Society, Vol. 48. |
| Reilly, H.J. (1929) | - "Mothod for the Study of |
|  | Relationships". University of |
|  | Texas Bulletin, No. 2944. |



| - | - |
| :---: | :---: |
|  |  |
| Spiegel, M. R. (1961) | - Theory and Problems of |
|  | Statistics, Schaum Outline |
|  | Series, New York: McGraw- |
|  | Hill. |
| Steigenga, W. (1967) | - The Contribution of Demography |
|  | to Physical and Spatial |
|  | Planning. - In - Bechoffer, |
|  | F. (ed.), Population Growth |
|  | and Brain Drain, Edinburth: |
|  | Edinburg':University Prees, |
|  | pp. 117-726. |
| Stewart, J.Q. (1948) | - "Demographio Gravitetion: |
|  | Evidence and Applications". |
|  | Sociometry, pp. 31-57. |
| Stewart, J.Q. and | - Some Parameters of Geographical |
|  | Distribution of Population, |
|  | Geographical Review, Vol. 49, |
|  | pp. 270-273. |
| Stouffer, S.A. (1940) | - MIntervening Opportunities: |
|  | A Theory Relating Modility |
|  | and Distance". American |
|  | Sociological Revier, Vol. 5, |
|  | pp. 845-867. |





$$
\begin{aligned}
& \text { - } 268 \\
& \text { Readings on Urbanism and } \\
& \text { Urbanisation, Englewood } \\
& \text { Cliffe, N.J.: Prentice-Hall, } \\
& \text { pp. } \\
& \text { Zipf, G.K. (1972 Edition) - Human Behaviour and the } \\
& \text { Principle of Least Effort, } \\
& \text { New York: Hafner Publishing } \\
& \text { Company, }
\end{aligned}
$$

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APPENDICES

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APPENDIX A

TABLE I. 1

## SAMPLING DESIGN OF TEE SURVEY

| Sample <br> Area | Universe | Sample <br> Size | Sampling <br> Fraction (\%) |
| :--- | :---: | :---: | :---: |
| Mlimani | 300 | 75 | 25.0 |
| Patel Flats | 120 | 30 | 25.0 |
| Tom Mboya | 46 | 12 | 26.1 |
| A. Kodhek Flats | 48 | 12 | 25.0 |
| Kibuye | 60 | 15 | 25.0 |
| Shauri Yako | 40 | 10 | 25.0 |
| STRATUM A | 614 | 154 | 25.1 |
| Ondiek | 226 | 57 | 25.2 |
| Lumumba | 100 | 25 | 25.0 |
| Makasembo | 125 | 31 | 24.8 |
| Arina | 175 | 44 | 25.1 |
| Mosque | 120 | 30 | 25.0 |
| Pembe Tatu | 80 | 20 | 25.0 |
| STRATUM B | 826 | 207 | 25.1 |
| Kaloleni | 220 | 55 | 25.0 |
| Nubian | 93 | 23 | 24.7 |
| Nyalenda | 300 | 75 | 25.0 |
| Bandani | 180 | 45 | 25.0 |
| Obunga-K甘dho | 150 | 38 | 25.3 |
| Neirobi | 136 | 34 | 25.0 |
| Manyatta | 220 | 55 | 25.0 |
| Arab Manyatta | 40 | 10 | 25.0 |
| STRATUM C | 339 | 335 | 25.0 |
| ALL SAMPLE AMEAS | 2,779 | 696 | 25.1 |
|  |  |  |  |
|  |  |  |  |

a Number of housing units

TABLE I. 2
DISTRIBUTION OF INTERVIENS IN KISUMU TOWN

| $\begin{aligned} & \text { Sampling } \\ & \text { Unit } \end{aligned}$ | Sample Sizo |  | Successful interviews |  | Unsuccessful interviews |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | $\begin{aligned} & \text { Num- } \\ & \text { ber } \end{aligned}$ | Percent | Refusal |  | Awăy |  |
|  |  |  |  |  | Num- ber | Percent | Number | Percent |
| Mlimani <br> Patel | 75 |  | 23 | 30.7 | 24 | 32.0 | 28 | 37.3 |
| Flats | 30 | 100 | 22 | 73.4 | 1 | 3.3 | 7 | 23.3 |
| Iom Mboya | 12 | 100 | 8 | 66.7 |  | - | 4 | 33.3 |
| A. Kodhels |  |  |  |  |  |  |  |  |
| Plats | 12 | 100 | 9 | 75.0 |  | - | 3 | 25.0 |
| Kibuye | 15 | 100 | 14 | 93.3 |  | 6.7 | - | - |
| Shauri |  |  |  |  | . |  |  |  |
| Yako | 10 | 100 |  | 200.0 | - | - | - | - |
| STRATUM A | 154 | 100 |  | 55.8 |  | 16.9 | 42 | 27.3 |
| Ondiak | 57 | 100 | 49 | 86.0 | 2 | 3.5 | 6 | 10.5 |
| Lumumba | 25. | 100 | 23 | 92.0 | 1 | 4.0 | 1 | 4.0 |
| Makasembo | 31 | 100 | 27 | 87.1 | 1 | 3.2 | 3 | 9.7 |
| Arina | 44 | 100 | 36 | 81.8 | 3 | 6.8 | 5 | 11.4 |
| Mosque | 30 | 100 | 26 | 86.6 | 2 | 6.7 | 2 | 6.7 |
| Pembe |  |  |  |  |  |  |  |  |
| Tatu | 20 | 100 | 20 | 100.0 | - | - | - | - |
| STRATUM B | 207 | 100 | 181 | 87.4 | 9 | 4.3 | 17 | 8.2 |

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| Kaloleni | 55 | 100 | 52 | 94.6 | 1 | 1.8 | 2 | 3.6 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nubian | 23 | 100 | 22 | 95.7 | 1 | 4.3 | - | - |
| Nyalenda | 75 | 100 | 71 | 94.7 | 3 | 4.0 | 1 | 1.3 |
| Bandani | 45 | 100 | 41 | 91.2 | 2 | 4.4 | 2 | 4.4 |
| Obunga- |  |  |  |  |  | . |  |  |
| Kudho | 38 | 100 | 21 | 55.3 | 9 | 23.7 | 8 | 21.0 |
| Nairobi | 34 | 100 | 31 | 91.2 | 1 | 2.9 | 2 | 5.9 |
| Manyatta | 55 | 100 | 53 | 96.4 | - | - | 2 | 3.6 |
| Arab |  |  |  |  |  |  |  |  |
| Manyatta | 10 | 100 | 10 | 100.0 | - | - | - | - |
| STRATUM C | 335 | 100 | 301 | 89.8 | 17 | 5.1 | 17 | 5.1 |
| T OT A L | 696 | 100 | 568 | 81.6 | 52 | 7.5 | 76 | 10.9 |

## TABLE I. 3

ENUMERATORS' COVERAGE OF RESPONDENTS IN THE TOWN

| Enumerator | Respondents interviewed |  |
| :---: | :---: | :---: |
|  | Number | Percentage |
|  | 124 | 21.8 |
| 2 | 100 | 17.6 |
| 3 | 113 | 19.9 |
| 4 | 67 | 11.8 |
| 5 | 84 | 14.8 |
| 6 | 80 | 14.1 |
| ALL ENUMERATORS | 568 | 100.0 |

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## TABLE II. 1

THE MAJOR ETHNIC GROUFS INTERVIEWED IN KISUMU TOKN

| Einnic Group | Number | Percent |
| :---: | :---: | :---: |
| African | 527 | 92.8 |
| Asian | 20 | 3.5 |
| Arab | 14 | 2.5 |
| European | 6 | 1.0 |
| Other | 1 | 0.2 |
| ALL EIHIIC GROUPS | 568 | 100.0 |

TABLE II. 2
THE AFRICAN TRIBAL GROUPS INTERVIENED IN THE TONN

| Tribal Group | Number | Peroent |
| :--- | :---: | :---: |
| Luo | 404 | 76.7 |
| Luhyz | 72 | 13.7 |
| Kikuyu | 13 | 2.5 |
| Kisii | 11 | 2.1 |
| Kalenjin | 8 | 1.5 |
| Karba | 5 | 0.9 |
| Other Kenya Tribes | 10 | 1.0 |
| Uganda Tribes | 3 | 0.6 |
| Tanzania Tribes | 1 | 0.2 |
|  |  | 100.1 |
| ALI IRIBAL GROUPS |  |  |

a These include such groups as the Swahili and Nubian.

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TABLE III. 1
SEX COMPOSIMIOM OF RESPONDENRS BY SAMPLE AREAS

| Area | SEX |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Both |  | Males |  | Females |  |
|  | Number Percent |  | Number Percent |  | Number Percent |  |
| Mlimani | 23 4.0 |  | 18 4, |  | 5 | 3.5 |
| Patel Flats | 22 | 3.9 | 17 | 4.0 | 5 | 3.5 |
| Tom Mboya | 8 | 1.4 | 7 | 1.6 | 1 | 0.7 |
| A. Kodhek |  |  |  |  |  |  |
| Flats | 9 | 1.6 | $6 \quad 1.4$ |  | 3 | 2.1 |
| Kibuye | 14 | 2.5 | 11 | 2.6 | 3 | 2.1 |
| Shauri Yako | 10 | 1.8 | 61. |  | 4 | 2.8 |
| STRatum a | 86 | 15.2 | 65 | 15.2 | 21 | 14.7 |
| Ondick | 49 | 8.6 | 32 | 7.5 | 17 | 12.1 |
| Lumumba | 23 | 4.0 | 18 | 4.2 | 5 | 3.5 |
| Makasembo | 27 | 4.7 | 20 | 4.7 | 7 | 4.9 |
| Arina | 36 | 6.3 | 22 | 5.2 | 14 | 10.0 |
| Kosque | 26 | 4.6 |  | 4.5 | 7 | 4.9 |
| Pembe Tatu | 20 | 3.5 | 19 | 13 3.1 | 7 | 4.9 |
| STRATUM B | 181 | 31.7 | 124 | 29.2 | 57 | 40.3 |

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| Kaloleni | 52 | 9.2 | 38 | 8.9 | 14 | 10.0 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Nubian | 22 | 3.9 | 16 | 3.8 | 6 | 4.2 |
| Nyalenda | 71 | 12.5 | 60 | 14.1 | 11 | 7.7 |
| Bandani | 41 | 7.2 | 32 | 7.5 | 9 | 6.3 |
| Obunga- |  |  |  |  |  |  |
| Kudho | 21 | 3.7 | 16 | 3.7 | 5 | 3.5 |
| Nairobi | 31 | 5.5 | 24 | 5.6 | 7 | 4.9 |
| Manyatta | 53 | 9.3 | 42 | 9.9 | 11 | 7.7 |
| Arab Manyatta | 10 | 1.8 | 9 | 2.1 | 1 | 0.7 |
| STRATUM C | 301 | 53.1 | 237 | 55.6 | 64 | 45.0 |
| ALL AREAS | 568 | 100.0 | 426 | 100.0 | 142 |  |
| Percent | 100.0 | $\cdots$, | 75.0 |  | 25.0 |  |

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TABLE III. 2
AGE AND SEX DISTRIEUTION OF RESPONDENTS IN KISUMU

| AgeGroup | SEX |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Both |  | Males |  | Females |  |
|  | Number Parcent |  | Number Percent |  | Number Percent |  |
| 15-19 | 42 | 7.4 | 22 | 5.2 | 20 | 14.1 |
| 20-24 | 102 | 18.0 | 69 | 16.2 | 33 | 23.2 |
| 25-29 | 149 | $\therefore 26.2$ | 104 | 24.4 | 45 | 31.7 |
| 30-34 | 107 | 18.8 | 84 | 19.7 | 23 | 16.2 |
| 35-39 | 59 | 10.4 | 48 | 11.3 | 11 | 7.7 |
| 40-44 | 41 | 7.2 | 38 | 8.9 | 3 | 2.1 |
| 45-49 | 33 | 5.8 | 31 | 7.3 | 2 | 1.4 |
| 50-54 | 15 | 2.6 | 12 | 2.8 | 3 | 2.1 |
| 55-59 | 6 | 1.1 | 5 | 1.2 | 1 | 0.7 |
| 60-64 | 7 | 1.2 | 6 | 1.4 | 1 | 0.7 |
| 65-59 | 4 | 0.7 | 4 | 0.9 | - | - - |
| 70-74 | 2 | 0.4 | 2 | 0.5 | - | - |
| $75+$ | 1 | 0.2 | 1 | 0,2 | - | $\cdots$ |
|  | 568 | 100.0 | 426 | 100.0 | 142 | 99.9 |

TABLE III.2a
AGE AND SEX STRUCTURE OF RESPONDENTS

| $\begin{gathered} \text { Age- } \\ \text { Group } \\ \text { (Years) } \end{gathered}$ | SEX |  |  |  | Both |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Males |  | Females |  |  |
|  | Observed | Expected | Observed | Expected |  |
| 15-19 | 22 | 31.5 | 20 | 10.5 | 42 |
| 20-24 | 69 | 76.5 | 33 | 25.5 | 102 |
| 25-29 | 104 | 111.7 | 45 | 37.2 | 149 |
| 30-34 | 84 | 80.2 | 23 | 26.7 | 107 |
| 35-39 | 48 | 44.2 | 11 | 14.7 | 59 |
| 40-44 | 38 | 30.7 | 3 | 10.2 | 41 |
| 45-49 | 31 | 24.7 | 2 | 8.2 | 33 |
| 50-54 | 12 | 11.2 | 3 | 3.7 | 15 |
| 55-59 | 5 | 4.5 | 1 | 1.5 | 6 |
| 60~64 | 6 | 5.2 | 1 | 1.7 | 7 |
| 65-69 | 4 | 3.0 | - | 1.0 | 4 |
| 70-74 | 2 | 1.5 | - | - | 2 |
| 75+ | 1 | - | - | - | 1 |
| $\begin{aligned} & =\text { ALL } \\ & \text { COHORTS } \end{aligned}$ | 426 |  | 142 |  | 568 |

Degrees of freedom: 12
Chi-square: 33.95
Significant at 5 per cent and 1 per cent lovels.

## TABLE III. 3

MARITAL STATUS OF RESFONDENTS BY SEX

| Matital Status | SEX |  |  |
| :---: | :---: | :---: | :---: |
|  | Both | Males | Females |
|  | Number Percent | Number Percent | Number Percent |
| Singie | $126 \quad 22 . \dot{2}$ | $101 \quad 23.7$ | $25 \quad 17.6$ |
| Married | $417 \quad 73.4$ | 314 73.7 | $103 \quad 72.5$ |
| Divorced | $7 \quad 1.2$ | $5 \cdots 1.2$ | $2 \quad 1.4$ |
| Hidowed | 183.2 | $6 \quad 1.4$ | 128.5 |
| TOTAL | $568 \quad 100.0$ | $426 \quad 100.0$ | $142 \quad 100.0$ |

## TABLE III. 3 a

CHI-SQUARE ANALYSIS OF MARITAL STATUS OF RESPONDENTS BY SEX

| Narital Status | SEX |  |  |  | Both |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Males |  | Females |  |  |
|  | Observed Expected |  | Observed Expeoted |  |  |
| Single | 101 | 9.4 .5 | 25 | 31.5 | 126 |
| Married | 314 | 312.7 | 103 | 104.2 | 417 |
| Divorced | 5 | -5.2 | 2 | 1.7 | 7 |
| Widowed | 6 | 13.5 | 12 | 4.5 | 18 |
| TOMAL | 426 |  | 142 |  | 568 |

Degrees of froedom: 3
Chi-square: " 18.54
Signifighnt at 5 per cent and 1 per cent levels.

## TABLE IV. 1

## LITERACY SITUATION IN KISUMU TOM

| Literacy status ox́ respondents | Number | Fercent |
| :--- | :---: | :---: |
| Currently out of school but |  |  |
| attended it at one time | 483 | 85.0 |
| Never ettended school |  |  |
| at all | 52 | 9.2 |
| Currently attending school | 33 | 5.8 |
|  | 568 | 100.0 |

TABLE IV. 2
EDUCATIONAL ATTAINMENT OF RESPONDENTS

| Educational attainment |  | Nunber | Pericont |
| :---: | :---: | :---: | :---: |
| Class reached in school | Type of institution |  |  |
| Net stated None <br> Standard 1-4 <br> Standard 5-8 <br> Forns I-IV ${ }^{1}$ <br> Forms $\mathrm{Vt}^{2}$ | Not stated <br> None <br> Lower Prinary <br> Upper Frimary <br> Secondary upto <br> E.A.C.E. <br> Secondary <br> above E.A.C.E. | 12 <br> 52 <br> 59 <br> 242 <br> 188 <br> 15 | 2.1 <br> 9.2 <br> 10.4 <br> 42.6 <br> 33.1 <br> 2.6 |
|  |  | 568 | 100.0 |

1 Forms I-IV represent classes 9-12.
2 Form V+ represents class I3+

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## TABLE IV. 3

## FREQUENCY DISTRIBUTION OF EDUCATIOMAL

## ATMAINMENT OF RESFONDENDS BI AGEGGOUF

| $\begin{gathered} \text { Age- } \\ \text { Group } \\ \text { (Years }) \end{gathered}$ | Educational Attainment |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ALL INSTITUTIONS ALL CLASSES |  | None and not stated |  | Lower <br> Primary <br> Stdsi-4 |  | Upper <br> Primary <br> Stdè5-8 |  | Secondary 'o' Levèz <br> Formsl-I: |  | Secondary <br> 'A.' Level <br> Form V.r |  |
|  | Numm ber | \% | $\begin{aligned} & \text { Num- } \\ & \text { ber } \end{aligned}$ | $\%$ | $\begin{aligned} & \text { Num- } \\ & \text { ber } \end{aligned}$ | \% | $\begin{array}{\|l\|l} \text { Num- } \\ \text { ber } \end{array}$ | \% | Number | $\%$ | Number | $\%$ |
| 15-19 | 42 | 7.4 | 2 | 3.1 | 2 | 3.4 | 8 | 3.3 | 30 | 15.9 | - | $\cdots$ |
| 20-24 | 102 | 18.0 | 2 | 3.1 | 6 | 10.2 | 43 | 17.8 | 46 | 24.5 | 5 | 33.3 |
| 25-29 | 149 | 26.2 | 9 | 14.1 | 6 | 10.2 | 71 | 29.3 | 57 | 30.3 | 6 | 40.0 |
| 30-34 | 107 | 18.8 | 10 | 15.6 | 17 | 28.7 | 53 | 21.9 | 24 | 12.8 | 3 | 20.0 |
| 35-39 | 59 | 10.4 | 5 | 7.8 | 9 | 15.2 | 26 | 10.7 | 19 | 10.1 | - | - |
| 40-44 | 41 | 7.2 | 9 | 14.1 | 3 | 5.1 | 22 | 9.2 | 7 | 3.7 | - | - |
| 45-49 | 33 | 5.8 | 10 | 15.6 | 7 | 11.9 | 11 | 4.5 | 5 | 2.7 | - | $\cdots$ |
| 50-54 | 15 | 2.6 | 5 | 7.8 | 5 | 8.5 | 4. | 1.7 | - | - | - | - |
| 55-59 | 6 | 1.1 | 1 | 1.6 | 3 | 5.1 | 2 | 0.8 | - | - | - | - |
| 60-64 | 6 | 1.1 | 5 | 7.8 | - | - | 1 | 0.4 | - | - | - | ... |
| 65-69 | 5 | 0.9 | 3 | 4.7 | 1 | 1.7 | 1 | 0.4 | - | - | - | - |
| 70-74 | 2 | 0.3 | 2 | 3.1 | - | - | - | - | - | - | - | - |
| 75+ | 1 | 0.2 | 1 | 1.6 | - | - | - | - | - | - | - |  |
| ALL |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

## TABLE IV. 32

## CHI-SQUARE ANALYSIS OF EDUCATIONAL ATPATMMETY

OF RESPONDENTS BY AGEGGROUP

|  | None and Not stated |  | Primary |  | Secondary |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Observed | Expected | Observed | Expected | Obserued | Expected |  |
| 15-19 | 2 | 4.7 | 10 | 22.2 | 30 | 15.0 | 42 |
| 20-24 | 2 | 11.5 | 49 | 54.0 | 51 | 36.4 | 102 |
| 25-29 | 9 | 16.8 | 77 | 79.0 | 63 | 53.2 | 149 |
| 30-34 | 10 | 12.1 | 70 | 56.7 | 27 | 38.2 | 107 |
| 35-39 | 5 | 6.6 | 35 | 31.2 | 19 | 21.1 | 59 |
| 40-44 | 9 | 4.6 | 25 | 22.7 | 7 | 14.6 | 41 |
| 45-49 | 10 | 3.7 | 18 | 17.5 | 5 | 11.8 | 33 |
| 50-54 | 5 | 1.7 | 9 | 7.9 | 1 | 5.4 | 15 |
| 55-59 | 1 | - | 5 | 3.2 | - | 2.1 | 6 |
| 60-6A | 5 | - | 1 | 3.2 | - | 2.1 | 6 |
| 65-69 | 3 | - | 2 | 2.6 | - | 1.8 | 5 |
| 70-74 | 2 | - | - | 1.1 | - | - | 2 |
| $75+$ | 1 | - | - | - | - | - | 1 |
| ALL COHORTS | 64 |  | 301 |  | 203 |  | 568 |

Degrees of freedom: 24
Chi-square: 99.94
Significant at 5 per cent and 1 per cent levels.

| $\begin{gathered} \text { Age- } \\ \text { Group } \\ (\text { Years }) \end{gathered}$ | Educational Attainment |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ALL <br> INSTITUTIONS <br> ALL CIASSES |  | None and Not stated |  | Lower Primary Stds. 1-4 |  | Upper <br> Primary Stds. 5-8 |  | Secondary ${ }^{\prime} 0^{\prime}$ Level <br> Forms I-IV |  | Secondary <br> 'A' Level <br> Form V+ |  |
|  | Number | $\%$ | Number | $\%$ | Number | \% | Number | \% | Number | \% | Number | $\%$ |
| 15-19 | 22 | 5.2 | - | - | - | - | 2 | 1.1 | 20 | 13.2 | - | -- |
| 20-24 | 69 | 16.2 | - | - | 3 | 7.9 | 28 | 15.7 | 34 | 22.4 | 4 | 28.5 |
| 25-29 | 104 | 24.4 | 5 | 11.4 | 3 | 7.9 | 4.3 | 24.2 | 47 | 30.9 | 6 | 43.0 |
| 30-34 | 84 | 19.7 | 7 | 15.9 | 11 | 28.9 | 42 | 23.6 | 21 | 13.8 | 3 | 21.4 |
| 35-39 | 48 | 11.3 | 1 | 2.3 | 6 | 15.8 | 23 | 12.9 | 18 | 11.8 | - | - |
| 40-44 | 38 | 8.9 | 7 | 15.9 | 3 | 7.9 | 21 | 11.8 | 7 | 4.6 | - | - |
| 45-49 | 31 | 7.2 | 9 | 20.4 | 6 | 15.8 | 11 | 6.2 | 5 | 3.3 | - | - |
| 50-54 | 12 | 2.8 | 3 | 6.8 | 4 | 10.5 | 4 | 2.2 | - | - | -1 | 7.1 |
| 55-59 | 5 | 1.2 | 2 | 2.3 | 2 | 5.3 | 2 | 1.1 | - | - | - . | - |
| 60-64 | 5 | 1.2 | 4 | 9.1 | - | - | 1 | 0.6 | - | - | - | - |
| 65-69 | 5 | 1.2 | 4 | 9.1 | - | - | 1 | 0.6 | - | - | - | - |
| 70-74 | 2 | 0.5 | 2 | 4.5 | - | - | - | - | - | - | - | .. |
| 75* | 1 | 0.2 | 1 | 2.3 | - | - | - | - | - | - | - | - |
| ALI COHORTS Percent | 426 | 100.0 | 44 | 100.0 | 38 | 100.0 | 178 | 100.0 | 152 | 100.0 | 14 | 100.0 |

FREQUENCY DISTRIDUTION OF EDUCATIONAL ATYAINIENT OF FEMALE RESPONDENTS BY AGE-GROUP


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## TABLE V.I

RREQUENGY DISTRIBUTION OF OGCUPATIONAL
GROUP OF RESPONDENTS BEFORD AND AFNER
MIGRATION TO KISUMU

| Occupational Group | Bafore Migration |  | Arter higration |  | Ahsolute Change |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | Number | Percont |  |
| Not stated | 2.7 | 3.0 | - | - | -17 |
| Employee | 198 | 34.9 | 340 | 59.9 | 142 |
| Own account |  |  |  |  |  |
| Worker | 64 | 11.3 | 99 | 17.4 | 35 |
| Student | 180 | 31.7 | 40 | 7.0 | -140 |
| None | 109 | 19.2 | 89 | 15.7 | -20 |
| TOTAL | 568 | 100.0 | 568 | 100.0 | $\cdots$ |

a The category of 'employer' was not net in the sample.

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TABLE V. 12
OCCUPATIONAL GROUP OF RESPONDENTIS BEFORE
AND AFTEH MIGRATION TO KISUMU

| Occupational Group | Before Migration |  | After Migration |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Observed | Expected | Observed | Expected |  |
| Not stated | 17 | 8.5 | - | 8.5 | 1.7 |
| Employee | 198 | 268.5 | 340 | 268.5 | 538 |
| Own account |  |  |  |  |  |
| worker | 64 | 81.5 | 99 | 81.5 | 163 |
| Student | 180 | 11.0 .0 | 40 | 11.0 .0 | 220 |
| None | 109 | 98.9 | 89 | 98.9 | 198 |
|  | 568 |  | 568 |  | 1136 |

Degrees of freedom: 4 .
Chi-square: 153.12
Significant at 5 per cent and 1 per cent levels.

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TABLE V. 2
OCCUPATIOMAL CATEGORY BY RESPONDENTS BY SEX

| Occupational Category | SEX |  |  |  | Both |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Males |  | Females |  |  |
|  | Observed | Expected | Observed | Expected |  |
| Not stated | 1 | - | - | - | -1 |
| Professional | 88 | 88.5 | 30 | 29.5 | 118 |
| Clerical | 90 | 81.0 | 18 | . 27.0 | 108 |
| Craftsman | 39 | 30.0 | 1 | 10.0 | .40 |
| Salemman | 44 | 37.5 | 6 | 12.5 | 50 |
| Agriculture/ |  |  |  |  |  |
| Fishing | 3 | 3.7 | 2 | 1.2 | 5 |
| Domeatic |  |  |  |  |  |
| worker: | 7 | 12.0 | 9 | 4.0 | 16 |
| Manual | 77 | 60.7 | 4 | 20.2 | 81 |
| Other | 40 | 81.7 | 69 | 27.2 | 109 |
| Unemployed | 37 | 30.0 | 3 | 10.0 | 40 |
| TOTAL | 426 | $\vdots$ | 142. |  | 568 |

Degrees of freedom: 9
Chi-square: 137.74.
Significant at 5 per cont and 1 per cent levels.

PERCEMTIAGE FREQUENCIES OF OCCUPATIONAL CATEGORY OF RESPONDENTS BY AGE-GROUP

| $\begin{aligned} & \text { Age- } \\ & \text { Gugup } \\ & \text { (Years } \end{aligned}$ | Occupational Category |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { ALL } \\ \text { OCCUPA- } \\ \text { TIONAL } \\ \text { CATEGORIES } \end{gathered}$ | Professional | Clerical | $\begin{gathered} \text { Crafts- } \\ \text { man } \end{gathered}$ | $\begin{aligned} & \text { Sales } \\ & \text { man } \end{aligned}$ | $\begin{aligned} & \text { Agri./ } \\ & \text { Fishing } \end{aligned}$ | Domestic Worker | Nanual | Other | Unemployed | $\begin{gathered} \text { Not } \\ \text { Stated } \end{gathered}$ |
| 15-19 | 7.4 | - | 0.9 | 2.5 | - | - | - | 3.7 | 26.6 | 20.0 | $\cdots$ |
| 20-24 | 18.0 | 16.9 | 16.7 | 12.5 | 20.0 | - | 12.5 | 12.3 | 19.3 | 40.0 | - |
| 25-29 | 26.2 | 28.0 | 39.8 | 20.0 | 18.0 | 20.0 | 31.2 | 24.7 | 17.4 | 25.0 | 1 |
| 30-34 | 18.8 | 19.5 | 18.5 | 37.5 | 16.0 | 20.0 | 18.8 | 29.6 | 10.0 | 5.0 | - |
| 35-39 | 10.4 | 15.3 | 9.3 | 12.5 | 8.0 | 20.0 | 18.8 | 12.3 | 6.4 | 2.5 | - |
| 40-44 | 7.2 | 8.5 | 5.6 | 7.5 | 18.0 | - | 12.5 | 6.2 | 4.5 | 2.5 | - |
| 45-49 | 5.8 | 9.3 | 4.6 | 5.0 | 12.0 | 20.0 | 66. 2 | 8.6 | $-$ |  | - |
| 50-54 | 2.6 | 1.7 | 4.6 | 2.5 | 2.0 | - | - | 1.3 | 2.8 | 5.0 | _ |
| 55-59 | 1.1 | 0.8 | - | - | 2.0 | 20.0 | - | - | 2.8 | - | - |
| 60-64 | 1.2 | - | - | - | 2.0 | - | - | 1.3 | 4.6 | - | - |
| 65-69 | 0.7 | - | - | - | 2.0 | - | - | . | 2.8 | .- | - |
| 70-74 | 0.4 | - | - | - | - | - | - | - | 1.8 | - | - |
| $75+$ | 0.2 | - | - | - | - | - | -. | - | 0.9 | - | - |
| ALL COHORTS | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 200.0 | 100.0 | 100.0 |

## TABLE V. 4

FREQUENCY DISTRIBUTION OF RESPONDENTS
WHO HAVE BEEN SEEKIMG EMFI, OYGENT DURIIG
DIFFERENS PERTODS OF TIME TN THE TOWN

| Period of Seeking employment | Respondents |  |
| :---: | :---: | :---: |
|  | Number | Parcent |
| 1-3 weeks | 3 | 23.1 |
| 1-11 months | 6 | 46.1 |
| 1 year or more | 4 | 30.8 |
|  | $13^{\text {a }}$ | 100.0 |

a This represents $2.3 \%$ of the total respondents

## TABLE V. 5

OHIEF EMPLOYERS OF RESPONDENTS IN KISUMU

| Enuploying Eody | Respondente |  |  |
| :---: | :---: | :---: | :---: |
|  | Number | Percent | Rank |
| Governmont of Konya (GK) | 71 | 16.3 | 3 |
| Sunicipal Council of Kisumu (nCK) | 24 | 5.5 | 6 |
| East frwican Community (EAC) | 36 | 8.3 | 4 |
| Teachers Seruico Commiasion (ISC) | 29 | 6.7 | 5 |
| Privato Soctor (companies or perbons) | 177 | 40.7 | 1 |
| Own account work (OAW) | 96 | 22.1 | 2. |
| Other | 2 | 0.4 | 7 |
| ALL EIIPLOYING BODIES | 435 | 100.0 |  |

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TABLE V. 6

## MIGRANTS CLASSIFTED BY THEIR CHIEF EMPLOYERS

|  | Type of Migrant |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Migrants ${ }^{\text {a }}$ |  | Non-migrants |  |
|  | Number | Percent | Number | Percent |
| GK | 71 | 17.0 | - | $\cdots$ |
| MCK | 23 | 5.5 | 1 | 5.9 |
| EAC | 35 | 8.4 | 1 | 5.9 |
| TSC |  | 6.9 | - | - |
| P.S. | 171 | 40.9 | 6 | 35.3 |
| OAW | 87 | 20.9 | 9 | 52.9 |
| Other | 2 | 0.5 | - | - |
| TOTAL | 418 | 100.0 | 17 | 100.0 |
| Percent of Total | 96.1 |  | 3.9 |  |

a
This includes both temporary and permanent migrants.

PERCENPAGE INCOME LEVELS ACCORDING TO SAMFIE AREAS

| Area | Income Levels (shillings per month) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { All } \\ \text { levels } \end{gathered}$ | Less <br> than $200$ | $\begin{aligned} & 200- \\ & 299 \end{aligned}$ | $\begin{aligned} & 300- \\ & 399 \end{aligned}$ | $\begin{aligned} & 400- \\ & 499 \end{aligned}$ | $500-$ 699 | $\begin{aligned} & 700- \\ & 999 \end{aligned}$ | $\begin{aligned} & 1000- \\ & 1399 \end{aligned}$ | $\begin{aligned} & 1400- \\ & 1999 \end{aligned}$ | $\begin{array}{r} 2000 \\ \text { and } \\ \text { more } \end{array}$ |
| Mimani | 5.0 | 11.8 | - | - | - | 1.7 | 3.8 | 5.4 | 8.7 | 33.4 |
| Patel. Flats | 3.5 | - | - | - | 2.5 | 5.0 | 5.1 | 10.8 | 8.7 | 3.7 |
| Tom Mhoya | 1.6 | - | - | - | - | - | 1.3 | 2.7 | 8.7 | 11.1 |
| A. Kodhek Flats | 1.6 | $\bigcirc$ | - | - | 2.5 | 1.7 | 3.8 | - | 4.3 | 3.7 |
| Kibuye | 2.6 | - | 1.7 | 3.1 | 2.5 | - | 2.5 | 5.4 | 8.7 | 3.7 |
| Shauri Yako | 1.6 | - | - | - | 2.5 | 1.7 | 2.5 | 5.4 | - | 3.7 |
| STRATUM A | 15.9 | 11.8 | 1.7 | 3.1 | 20.0 | 10.1 | 19.0 | 29.7 | 39.1 | 59.3 |
| Ondiek | 10.0 | 8.8 | 3.4 | 4.6 | 10.0 | 10.0 | 17.7 | 19.0 | 8.7 | 3.7 |
| Iumumba | 4.5 | - | 1.7 | 1.5 | - | 10.0 | 12.7 | 2.7 | - | - |
| Makasembo | 4.5 | - | 3.4 | 4.6 | 2.5 | 8.3 | 5.1 | 5.4 | $4 \cdot 3$ | 3.7 |
| Arina | 5.9 | - |  | 4.6 | 10.0 | 8.3 | 8.8 | 8.1 | 8.7 | 3.7 |
| Mosque | 4.2 | 3.0 | 1.7 | I. 5 | 5.0 | - | 7.6 | 5.4 | 13.1 | . 7.4 |
| Pembe jatu | 3.8 | - | - | 3.1 | 5.0 | 8.3 | 6.3 | 5.4 | - |  |
| STRATUM B | 32.9 | 11.8 | 10.2 | 19.9 | 32.5 | 44.9 | 58.2 | 46.0 | 34.8 | 18.5 |


| Kaloleni | 9.0 | 17.6 | 11.9 | 13.8 | 15.0 | 8.3 | 2.5 | - | - | 11.1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nubian | 3.0 | 5.9 | 6.8 | 3.1 | - | 8.3 | - | 2.7 | 8.7 | - |
| Nyalenda | 10.4 | 17.6 | 25.4 | 10.8 | 15.0 | 5.0 | 3.8 | 8.1 | - | 3.7 |
| Bandani | 6.6 | 8.8 | 16.9 | 13.8 | 5.0 | 3.3 | 1.3 | 2.7 | - | - |
| Obunga-Kudho | 3.5 | 8.8 | 8.5 | 9.3 | 2.5 | - | - | - | - | - |
| Nairobi | 6.3 | 8.8 | 5.0 | 6.2 | 5.0 | 6.7 | 5.1 | 5.4 | 17.4 | 3.7 |
| Aenyatta | 10.0 | 3.0 | 11.9 | 18.5 | 12.5 | 12.7 | 8.8 | 5.4 | - | 3.7 |
| Arab Manyatta | 1.6 | 5.9 | 1.7 | 1.5 | 2.5 | 1.7 | 1.3 | - | - | - |
| STRATUM $C$ | 51.2 | 76.4 | 88.1 | 77.0 | 57.5 | 45.0 | 22.8 | 24.3 | 26.1 | 22.2 |
| All areas | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

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## TABLE V. 8

FMPLOYHENT SITUATION IN THE TOHN BY SEX

|  | SEX |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Both <br> Number Percent |  | NalesNumber Percent |  | Fiomales <br> Number Percent |  |
| Employed | 350 | 61.6 | 294 | 69.0 | 56 | 39.4 |
| Unemployed | 40 | 7.0 | 37 | 8.7 | 3 | 2.1 |
| Other | 178 | 31.3 | 95 | 22.3 | 83 | 58.5 |
|  | 568 | 99.9 | 426 | 100.0 | 142 | 100.0 |

## TABLE V.8a <br> CHI-SQUARE ANALYSIS OF EMPLOYMENT

SIMUATION IN KISUMU TOWN BY SEX

| Sex | Employment Situation |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | loyed <br> Expected | Unem Obse- rved | loyed <br> Expe- <br> cted | $\begin{gathered} \mathrm{Ot} \\ \text { Obse- } \\ \text { rued } \end{gathered}$ | Expe-cted | TOTAL |
| Hales | 294 | 262.5 | 24 | 27.0 | 108 | 136.5 | 426 |
| Females | 56 | 87.5 | 12 | 9.0 | 74 | 45.5 | 142 |
| BOTH | 350 |  | 36 |  | 182 |  | 568 |
| Degrees of freedom: 2 |  |  |  |  |  |  |  |
| Chi-square: 34.72 |  |  |  |  |  |  |  |
| Significant at 5 per cont and 1 per cent levele. |  |  |  |  |  |  |  |

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## TABLE V. 9

ECONOHIC ACTIVITY RATES OF HALES AND FEMALES

|  | Malos |  |  | Females |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Sample } \\ \text { Population } \end{gathered}$ | Labour Force | Activity Rate | Sample Population | Labour Force | Activity Rato |
| 15-19 | 191 | 21 | 11.0 | 235 | 17 | 7.2 |
| 20-24 | 196 | 54 | 27.6 | 141 | 32 | 22.7 |
| 25-29 | 189 | 93 | 49.2 | 102 | 45 | 44.1 |
| 30-34 | 116 | 80 | 69.0 | 54 | 25 | 46.3 |
| 35-39 | 88 | 45 | 51.1 | 38 | 13 | 34.2 |
| 40-44 | 50 | 37 | 74.0 | 14 | 3 | 21.4 |
| 45-49 | 37 | 31 | 83.8 | 12 | 2 | 16.7 |
| 50-54 | 14 | 10 | 71.4 | 7 | 2 | 42.9 |
| 55-59 | 8 | 5 | 62.5 | 3 | 1 | 33.3 |
| 60-64 | 7 | 6 | 85.7 | 2 | 2 | 50.0 |
| 65-69 | 4 | 4 | 100.0 | 2 | - | - |
| 70-74 | 2 | 2 | 100.0 | - | - | - |
| 75+ | 2 | 1 | 50.0 | - | - | $\cdots$ |
|  | 904 | 389 | 43.0 | 610 | 142 | 23.3 |

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## TABLE V. 10

## MOBILITY PREFERENCE OR MIGRAYTS

RELATING TO ECONOMIC ACTIVITX

| Hobility Preference | Ma Migrants <br> Number Percent |  |
| :---: | :---: | :---: |
| To retain present employment in Kisumu | 245 | 50.3 |
| To go olsewhere on promotion | 141 | 29.0 |
| Other | 101 | 20.7 |
| ALL MOBILITY PREFERENCE | 487 | 100.0 |

a
Only responses of employed persone including own account workers are included here.

| Distance Band | Average distance (kilometres $)^{a}$ |  | Total. <br> migrants ${ }^{b}$ | $\begin{gathered} \text { Cumu- } \\ \text { J.ative } \\ \text { total } \\ \text { migrants } \end{gathered}$ | Percentage of total population | Cumulative Percentage | Average migrants per district |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 0-50 | 2 | 160 | 160 | 38.0 | 37.0 | 80.0 |
| 2 | 50-100 | 8 | 256 | 416 | 59.3 | 96.3 | 32.0 |
| 3 | 100-150 | 2 | 2 | 418 | 0.5 | 96.8 | 1.0 |
| 4 | 150-200 | 1 | 1 | 419 | 0.2 | 97.0 | 1.0 |
| 5 | 200-250 | 1 | 1 | 420 | 0.2 | 97.2 | 1.0 |
| 6 | 250-300 | $?$ | 7 | 427 | 1.0 | 98.8 | 3.5 |
| 7 | $300+$ | 2 | 5 | 432 | 1.2 | 100.0 | 2.5 |

a Taring Kisumu Town as the radius distance bands kere drawn on the map of Kenya at on interval of 50 kilometres. These distanee bands give different distance values from road distances and are actwally the shortest routes fron the town.
b liggants here were determined from birthplace information given by respondents.

## TABLE VI.?

## MIGRAMIOM RATES OF PROVINGES RO KISUMU

| Province of oui-migration | Migration Rate ${ }^{a}$ |
| :--- | :---: |
| Nyanza | 327 |
| Rift Valley | 99 |
| Central | 9 |
| Rift Valley | 6 |
| Eastorn | 5 |

a Number of migrants per 1,000 persona in the Province

$$
\therefore \quad 299
$$

## TABLE VI. 3

KIGRATIOM RATES OF DISTRICTS TO KISUMU

| District of out-migration | Migration Rate ${ }^{\text {a }}$ |
| :---: | :---: |
| Siaya | 889 |
| Kisumu | 488 |
| South Nyanza | 145 |
| Kakamega | 243 |
| Busia | 79 |
| Kigii | 39 |
| Mandi | 17 |
| Kiambu | 16 |
| Tans Nzoia | 1.6 |
| Bungoma | 12 |
| Beringo | 11 |
| Machakos | 11 |
| Nyeri | 11 |
| Vasin Gishu | 10 |
| Murang ${ }^{\prime}$ a | 9 |
| Kericho | 8 |
| Nakuru | 6 |
| Kitui | 5 |

a Number of migrants per 1,000 parsons in the District.

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TABLE VI. 4
FREQUENCY DISTRIBUTION OF BIRTHPLACE AND HONE
OF MIGRAN'S BY HISTRICMS IH MYANEA PROVINCE

| Disirict | Respondents |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Birthplace |  | Home |  |
|  | Number | Percent | Number | Percent |
| Siaya | 179 | 51.4 | 199 | 50.6 |
| Kisumu | 107 | 30.7 | 120 | 30.5 |
| South |  |  |  |  |
| Nyanza | 50 | 14.4 | 63 | 16.0 |
| Kisij. | 12 | 3.4 | 11 | 2.8 |
| NYANZA PROVINCE | 348 | 99.9 | 393 | 99.9 |

TABLE VI. 5
PREOUENGY DISTRTBUTION OF BIRTHPIACE AND HOME
OF MICRANTS BY DISTRICT IN UESTERN PROVINCE

| District | Migrants |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Birthplace |  | Home |  |
|  | Number | Percent | Number | Percent |
| Kakamega | 53 | 84.1 | 64 | 34.2 |
| Bubia | 8 | 12.7 | 9 | 11.8 |
| Bungoma | 2 | 3.2 | 3 | 3.9 |
| $\begin{aligned} & \text { WESTEIRN } \\ & \text { PROVINCE } \end{aligned}$ | 63 | 100.0 | 76 | 99.9 |

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TABLE VI. 6
HIGRANTS FROM LOCATIONS IN SIAYA DISTRICT,*

| Locations | Number | Pencent of <br> District | Percent of <br> Provinco |
| :--- | :---: | :---: | :---: |
| Gem | 59 | 29.6 | 15.0 |
| Asembo | 35 | 17.6 | 8.9 |
| Alego | 34 | 17.1 | 8.6 |
| Sakwa | 27 | 13.6 | 6.9 |
| Uyoma | 16 | 8.0 | 4.1 |
| Ugenya | 14 | 7.0 | 3.6 |
| Yimbo | 11 | 5.5 | 2.8 |
| Uholo | 3 | 1.5 | 0.8 |
| SIAYA DISTRICT | 199 | 99.9 | 50.6 |

* To avoid errors due to recent subdivisions of locations, a location is here regarded as an administrative unjt irrespective of geographical divisions e.g. West, North, ete.


## TABLE VI. 7

MIGRANTS FROM LOCATICNS IN KISUMU DISTRICY

| Location | Number | Percont of <br> District | Percent of <br> Frovince |
| :--- | :---: | :---: | :---: |
| Kano | 34 | 28.3 | 8.6 |
| Seme | 34 | 28.3 | 8.6 |
| Kisumu | 24 | 20.0 | 6.1 |
| Nyakach | 23 | 19.2 | 5.9 |
| Kajulu | 4 | 3.3 | 1.0 |
| Muhoroni | 1 | 0.8 | 0.3 |

## TABLE VI. 8

MIGRANTS FROM LOCATIONS IN SOUTH NYANZA. DISTRICT

| Location | Number | Percent of District | Percent of Province |
| :---: | :---: | :---: | :---: |
| Karachuonyo | 15 | 23.8 | 3.8 |
| Cembe | 6 | 9.5 | 1.5 |
| Kamagambo | 6 | 9.5 | 1.5 |
| Ruainga | 4 | 6.3 | 1.0 |
| Kanyamkago | 4 | 6.3 | 1.0 |
| Kaspul | 4 | 6.3 | 1.0 |
| Konyango | 3 | 4.8 | 0.8 |
| Gem | 3 | 4.8 | 0.8 |
| Kanamwa | 2 | 3.2 | 0.5 |
| Kabuoch | 2 | 3.2 | 0.5 |
| Sakwa | 2 | 3.2 | 0.5 |
| Kabondo | 2 | 3.2 | 0.5 |
| Mfang'ano | 2 | 3.2 | 0.5 |
| Nyokal | 2 | 3.2 | 0.5 |
| Kerungu | 1 | 1.6 | 0.3 |
| Kadem | 1 | 1.6 | 0.3 |
| Gwasi | 1 | 1.6 | 0.3 |
| Kanyada | 1 | 1.6 | 0.3 |
| Olambwe | 1 | 1.6 | 0.3 |
| Suna | 1 | 1.6 | 0.3 |
|  | 63 | 100.0 | 16.2 |

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TABLE VI. 2
MIGRANTS FROM LOCATIONS IN KISII DISTRIGT

| Location | Number | Percent of <br> District | Percent of <br> Province |
| :--- | :---: | :---: | :---: |
| Kitutu | 4 | 36.4 | 1.0 |
| Majoge | 3 | 27.3 | 0.8 |
| Nyaribari | 2 | 18.2 | 0.5 |
| Wanjare | 2 | 18.2 | 0.5 |
|  | 11 | 100.1 | 2.8 |

## TABLE VI. 10

MIGRANTS FROM LOCATIONS IN KAKAMEGA DISTRICT

| Location | Number | Percent of <br> District | Percert of <br> Province |
| :--- | :---: | :---: | :---: |
| Maragali | 21 | 32.8 | 27.6 |
| Bunyoro | 14 | 21.9 | 18.4 |
| Wanga | 8 | 12.5 | 10.5 |
| Marama | 4 | 6.2 | 5.3 |
| Nyang'ori | 4 | 6.2 | 5.3 |
| Kisa | 4 | 6.2 | 5.3 |
| Isukha | 3 | 4.7 | 3.9 |
| Idakho | 3 | 4.7 | 3.9 |
| Tiriki | 2 | 3.1 | 2.6 |
| Butsotso | 1 | 1.6 | 1.3 |
| ALL LocATIONS | 64 | 99.9 | 84.1 |

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## PABLE VI. 11

MIGRANTS FROM LOCATIONS IN BUSIA DISTRICT

| Location | Number | Percent of <br> District | Percent of <br> Province |
| :--- | :---: | :---: | :---: |
| Bunyala | 4 | 44.4 | 5.3 |
| Samia | 2 | 22.2 | 2.6 |
| Toso | 2 | 22.2 | 2.6 |
| Marach | 1 | 11.1 | 1.3 |
| ALL LOCATIONS | 9 | 99.9 | 11.8 |

TABLE VI. 12
MIGRANTS FROM LOCATIONS IN BUNGOMA DISTRICT

| Location | Number | Percent of <br> District | Percent of <br> Province |
| :--- | :---: | :---: | :---: |
| Bukusu | 2 | 66.7 | 2.6 |
| Bokoli | 1 | 33.3 | 1.3 |
|  | 3 | 100.0 | 3.9 |

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TABLE VII. 1
MIGRANTS WITH RELATIONS BACK HOME


## TABLE VII. 2

MIGRANTS WITH PROPERTY AT HOME


Response rate: 84. 15
Per cent of migyzfts only: 87.7

## TABLE VIII. 1

PLACE OF RESIDENCE IN 1968 AND 1972

| Place or Residence | Year |  |  | Net Change |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1968 | 1972 |  |  |  |
|  | Number Porcent | Number | Percent | Number | Percent |
| Kisuna | 32957.9 | 530 | $93: 3$ | +201 | +35.4 |
| Elsewhere | 239 : 42.1 | 38 | 6.7 | -201 | -35.4 |
|  | 568100.0 | 568 | 100.0 | - | - |

TABLE VIII.Ia
CHI-SQUARE ANALYSIS OF PLACE OF RESTDENCE
IN 1968 AND 1972

| YEAR | Place of Residence |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Kisumu |  | Elsewhere |  | - TOTAL .. |
|  | Observed | Expected | Observed | Expected |  |
| 1968 | 329 | 429.5 | 239 | 138.5 | 568 |
| 1972 | 530 | 429.5 | 38 | 138.5 | 568 |
| TOTAL | 859 |  | 277 |  | 1136 |

Degrees of freadom: 1
Chi-squave: 292.90
Significant at 5 per cent and 1 per cent levels

| $\begin{gathered} \text { Towns } \\ \text { lived } \\ \text { in } \\ \text { (number) } \end{gathered}$ | ALL MIGRANTS |  | Migrants |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Temporary |  | Permanent |  | Non-migrant |  |
|  | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| $\cdots 0 *$ | 147 | 25.9 | 118 | 23.8 | 18 | 36.0 | 11 | 47.9 |
| 1 | 141 | 24.8 | 119 | 24.0 | 17 | 34.0 | 5 | 21.7 |
| 2 | 162 | 28.5 | 145 | 29.3 | 12 | 24.0 | 5 | 21.7 |
| 3 | 71 | 12.5 | 67 | 13.5 | 3 | 6.0 | 2 | 4.3 |
| 4 | 22 | 3.9 | 21 | 4.2 | - | - | 1 | 4.3 |
| 5 | 25 | 4.4 | 25 | 5.1 | - | - | - | - |
| ALL TOWNS | 568 | 100.0 | 495 | 99.9 | 50 | 100.0 | 23 | 99.9 |

* Those who have lived in Kisumu only. The rest incluce those who have lived in towns other than Kisumu.


## TABLE VIII. 2 a

MOBILITY OF MIGRANTS ACCORDING TO THE NUMEER OF TOWNS LIVED IN

| $\begin{gathered} \text { Towns } \\ \text { lived } \\ \text { in } \\ \text { (number) } \end{gathered}$ | Migrants |  |  |  | Non-migrant |  | ALL <br> MIGRANTS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Temporary |  | Permanent |  |  |  |  |
|  | Observed | Expected | Observed | Expected | Observed Expected |  |  |
| 0 | 118 | 128.1 | 18 | 12.9 | 11 | 5.6 | 147 |
| 1 | 119 | 122.8 | 17 | 12.4 | 5 | 5.7 | 141 |
| 2 | 145 | 141.2 | 12 | 14.3 | 5 | 6.6 | 162 |
| 3 | 67 | 61.9 | 3 | 6.3 | 1 | 2.9 | 71 |
| 4 | 21 | 19.2 | $\because$ | 1.9 | 1 | - | 22 |
| 5 | 25 | 21.8 | - | 2.2 | - | 1.0 | 25 |
| ALL TOWNS | 495 |  | 50 |  | 23 |  | 568 |

Dagrees of freedom: 10
Chi-square: 19.92
Significant at 5 per cent level.

PERIOD OF MIGRATION TO KISURU BY TYPE OF MIGFANTS

| $\begin{aligned} & \text { Period } \\ & \text { (years) } \end{aligned}$ | ALL RESPONDENTS |  | Migrants |  |  |  | Non-migrants |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Temporary |  | Permanent |  |  |  |
|  | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Born in Kisumu | 32 | 5.6 | 8 | 1.6 | 1 | 1.9 | 23 | 100.0 |
| Not stated | 6 | 1.0 | 3 | 0.6 | 3 | 5.8 | $\div$ | - |
| 1900-1909 | 1 | 0.2 | 1 | 0.2 | - | - | $-$ | - |
| 1910-1919 | - | - | - | - | - | - | - | - |
| 1920-1929 | 2 | 0.4 | - | - | 2 | 3.8 | - | - |
| 1930-1939 | 5 | 0.9 | 4 | 0.8 | 1 | 1.9 | - | - |
| 1940-1949 | 26 | 4.6 | 9 | 1.8 | 17 | 32.7 | - | - |
| 1950-1959 | 50 | 8.8 | 33 | 6.7 | 17 | 32.7 | - | - |
| 1960-1969 | 260 | 45.8 | 253 | 51.3 | 7 | 13.5 | - | - |
| 1970- | 186 | 32.7 | 182 | 36.9 | 4 | 7.7 | - | - |
| ALL EERIODS | 568 | 100.0 | 493 | 99.9 | 52 | 100.0 | 23 | . 100.0 |
| $\begin{gathered} \text { Percant all } \\ \text { periods } \end{gathered}$ | 100.0 |  | 86.8 |  | $9: 2$ |  | 4.0 |  |


| Time of migration (years) | Type of Migrant |  |  |  | TOTAI |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Temporary |  | Permanent |  |  |
|  | Observed | Expected | Observed | Expected |  |
| Born in Kisumu | 8 | 8.1 | 1 | - | 9 |
| Not stated | 3 | 5.4 | 3 | - - | 6 |
| 1900-1909 | 1 | - | - | - | 1 |
| 1910-1919 | - | - | - | - | - |
| 1920-1929 | - | $1 \times 8$ | 2 | - | 2 |
| 1930-1939 | 4 | 4.5 | 1 | - | 5 |
| 1940-1949 | 9 | 23.5 | 17 | 2.5 | 26 |
| 1950-1959 | 33 | 45.2 | 17 | 4.8 | 50 |
| 1960-1959 | 253 | 253.2 | 7 | 24.8 | 260 |
| 1970- | 182 | 168.2 | 4 | 17.7 | 186 |
|  | 493 |  | 52 |  | 545 |

Degree of freedom (excluding 1919-1919): 8
Chi-square: 148.42
Significant at 5 per cent andel per cent levels.

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## TABLE VIII. 4

MIGRANTS AND RELATIONS PRESENT AND/OR STAYED UITH IN KISUMU

| Relations | Present in Kisumu | Stayed with <br> at ons time |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Frequency | Per cent | Frequency | Per cent |
|  | 391 | 70.3 | 296 | 54.9 |
| Friends | 56 | 10.1 | 56 | 10.5 |
| Neither | 109 | 19.6 | 187 | 34.7 |
| ALL Relations | 556 | 100.0 | 539 | 100.0 |
| Percent of |  |  |  |  |
| total sample | 97.9 |  | 94.9 |  |

## TABLE VIII.Aa

RESPONDEITM' RELATIONS PRESENT
AND THOSE STAYED WITH ON MIGRATING

| Relations | Present in Kisumu |  | Stayed with |  | TOTAL |
| :--- | :---: | ---: | ---: | ---: | :---: |
|  | Observed | Expected | Observed | Expected |  |
| Relatives | 391 | 348.8 | 296 | 338.1 | 687 |
| Friends | 56 | 56.8 | 56 | 55.1 | 112 |
| Neither | 109 | 105.3 | 187 | 145.7 | 296 |
|  | 556 |  | 539 |  | 1095 |

Degrees of freedom: 2
Chi-square: 33.48
Signiricant at 5 per cent and 2 per cent levels.


## TABLE VIII. 5

## RESPONDENTS' CONTACT WITH HOME

SINCE MIGRATING TO KISUMU

| Contact with home (on <br> basis of visits/no visits) | Respondents |  |  |
| :--- | ---: | ---: | :---: |
|  | Number | Percent | Renk |
| Thoso having Kisumu as <br> permanent home <br> Those who have never visited <br> home since migrating <br> Those who have visited <br> home since migrating <br> Non-response | 78 | 13.7 | 2 |
| TOTAL | 27 | 4.8 | 3 |

## TABLE VIII. 6

FREQUENCY AND NATURE OF VISITS HOME

| Nature of visit | Frequency | Percent | Rank |
| :--- | :---: | :---: | :---: |
| During weekends | 138 | 28.9 | 2 |
| When on leave/holidays | 147 | 30.8 | 1 |
| Every end of the month | $80 *$ | 16.8 | 4 |
| Other | 112 | 23.5 | 3 |
| ALL VISITS | $477^{1}$ | 100.0 |  |

1 This represents 87.5 per cent of all respondents

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## TABLE VIII. 7

## PERCENTAGE FREGUENCY OF VISITS HOME

BY MATURE OF VISIT AND AGE-GROUP

| $\begin{gathered} \text { Age- } \\ \text { (group } \\ \text { (years) } \end{gathered}$ | Nature of Visit (\% frequency) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underset{\text { VISITS }}{\text { ALL }}$ | During weekends | When on leave or holidays | INory end of the months | Other |
| 15-19 | 7.3 | $\vdots$ - | 15.6 | 1.2 | 9.8 |
| 20-24 | 18.9 | 18.1 | 19.7 | 22.5 | 16.1 |
| 25-29 | 28.1 | 30.4 | 25.2 | 28.7 | 28.6 |
| 30-34 | 19.5 | 19.6 | 19.0 | 23.8 | 17.0 |
| 35-39 | 10.9 | 13.1 | 8.2 | 15.0 | 8.9 |
| 40-44 | 7.8 | 9.4 | 5.4 | 6.3 | 9.8 |
| 45-49 | 4.2 | 5.8 | 3.4 | 2.5 | 4.4 |
| 50-54 | 1.7 | 2.9 | 2.1 | - | 0.9 |
| 55-59 | 0.6 | - | 0.7 | - | 1.8 |
| 60-64 | 0.6 | 0.7 | 0.7 | - | 0.9 |
| 65-69 | - | - | - | - | - |
| 70-74 | $\because 0.2$ | - | - | - | 0.9 |
| 75+ | 0.2 | - | - | - | 0.9 |
| ALL СО CORTIS | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TABLE VIII.7a
FREQUENCY OF VISITS HOIE BY NATURE OF VISIT ACCORDING TO AGE-GROUP

|  | Frequency of Visits |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | During Weekends |  | When on leave or holidays |  | Every end of the month |  | Other |  | TOTAL |
|  | Observed Expected |  | Observed Expected |  | Observed Expected |  | Observed Expected |  |  |
| 15-19 | - | 10.1 | 23 | 10.8 | 1 | 5.9 | 11 | 8.2 | 35 |
| 20-24 | 25 | 26.0 | 29 | 27.7 | 18 | 15.1 | 18 | 21.1 | 90 |
| 25-29 | 42 | 38.8 | 37 | 41.3 | 23 | 22.5 | 32 | 31.5 | 134 |
| 30-34 | 27 | 26.9 | 28 | 28.7 | 19 | 15.6 | 19 | 21.8 | 93 |
| 35-39 | 18 | 15.0 | 12 | 16.0 | 12 | 8.7 | 10 | 12.2 | 52 |
| 40-44 | 13 | 10.7 | 8 | 11.4 | 5 | 6.2 | 11 | 8.7 | 37 |
| 45-49 | 8 | 5.8 | 5 | 6.2 | 2 | 3.4 | 5 | 4.7 | 20 |
| 50-54 | 4 | 2.3 | 3 | 2.5 | - | 1.3 | 1 | 1.9 | 8 |
| 55-59 | - | - | 1 | - | - | - | 2 |  | 3 |
| $60+$ | 1 | 1.4 | 1 | 1.5 | - | - | 3 | 1.2 | 5 |
|  | 138 |  | 147 |  | 80 |  | 112 |  | 477 |

Degree of freedom: 27
Chi-square: 44.19
Significant at 5 per cent level
$-\quad 315$

## TABLE VIII. 8

MOBILITY PREFERENCE OF RESPONDENTS IN FUTURE

| Mobility Preference | Respondents |  |
| :--- | ---: | ---: |
|  | Number | Percent |
| To continue staying in Kisumu | 374 | 66.1 |
| To move to another town | 123 | 21.7 |
| To move to the countryside | 51 | 9.0 |
| Not stated | 18 | 3.2 |

NOTE:
Only 2 persons failed to respond to this question.

TABLE IX.1
HOUSEHCLD SIZES IN THE TOWN

| Household Size | Number | Percent |
| :---: | :---: | :---: |
| $1-3$ |  | 213 |
| $4-6$ | 219 | 37.5 |
| $7-9$ | 104 | 18.3 |
| $10-12$ | 26 | 4.6 |
| $13-14$ | 6 | 1.0 |
| ALL HOUSEHOLD SIZES | .568 | 100.0 |

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TABLE IX. 2
$\triangle$ GE-SEX STRUCTURE OF SAMPLE HOUSEHOLDS

| $\begin{aligned} & \text { Age- } \\ & \text { Eroup } \end{aligned}$ | SEV |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Both |  | Males |  | Females |  |
|  | Number Percent |  | Number Percent |  | Number Percent |  |
| Not stated | 53 | 2.0 | 30 | 2.1 | 23 | 2.0 |
| 0-4 | 386 | 14.5 | 187 | 13.0 | 199 | 16.3 |
| 5-9 | 364 | 13.7 | 173 | 12.0 | 191 | 15.6 |
| 10-14 | 339 | 12.8 | 141 | 9.8 | 198 | 16.2 |
| 15-19 | 426 | 16.1 | 191 | 13.3 | 235 | 19.2 |
| 20-24 | 337 | 12.7 | 196 | 13.7 | 141 | 11.5 |
| 25-29 | 291 | 11.0 | 189 | 13.2 | 102 | 8.4 |
| 30-34 | 170 | 6.4 | 116 | 8.1 | 54 | 4.4 |
| 35-39 | 126 | 4.7 | 88 | 6.1 | 38 | 3.1 |
| 40-44 | 64 | 2.4 | 50 | 3.5 | 14 | 1.1 |
| 45-49 | 49 | 1.8 | 37 | 2.6 | 12 | 1.0 |
| 50-54 | 21 | 0.8 | 14 | 1.0 | 7 | 0.6 |
| 55-59 | 11 | 0.4 | 8 | 0.6 | 3 | 0.2 |
| 60-64 | 9 | 0.3 | 7 | 0.5 | 2 | 0.2 |
| 65-69 | 6 | 0.2 | 4 | 0.3 | 2 | 0.2 |
| 70-74 | 2 | 0.1 | 2 | 0.1 | - | $\cdots$ |
| 75+ | 2 | 0.1 | 2 | 0.1 | - | - |
| ALL COHORTS | 2,656 | 100.0 | 1,435 | 100.0 | 1,221 | 100.0 |
| Per cent | 100.0 |  | 54.0 |  | 46.0 |  |

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## TABLE IX. 3

SEX AND AGE RATIOS OF
SAMPLE HOUSEHOLDS BY AGE*

| $\begin{aligned} & \text { Age- } \\ & \text { group } \end{aligned}$ | Sex |  |  | $\begin{gathered} \text { Sex }_{\text {R }} \\ \text { Ratio } \end{gathered}$ | Age Ratios ${ }^{\text {b }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Both | Males | Females |  | Both | liales | Females |
| 0-4 | 386 | 187 | 199 | 94 | - | - | - |
| 5-9 | 364 | 173 | 191 | 91 | 1.004 | 1.055 | . 962 |
| 10-14 | 339 | 142 | 198 | 71 | . 858 | . 775 | . 930 |
| 15-19 | 426 | 191 | 235 | 81 | 1.260 | 1.134 | 1.386 |
| 20-24 | 337 | 196 | 1.41 | 139 | . 940 | 1.032 | . 837 |
| 25-29 | 291 | 189 | 1.02 | 185 | 1.148 | 1.212 | 1.046 |
| 30-34! | 170 | 116 | 54 | 215 | . 825 | . 838 | . 771 |
| 35-39 | 126 | 88 | 38 | 232 | 1.077 | 1.060 | 2.118 |
| 40-44 | 64 | 50 | 14 | 357 | . 731 | . 800 | . 560 |
| 45-49 | 49 | 37 | 12 | 308 | 1.153 | 1.156 | 1.143 |
| 50-54 | 21 | 14 | 7 | 200 | .700 | . 622 | . 9.33 |
| 55-59 | 11 | 8 | 3 | 267 | . 733 | .762 | . 667 |
| 60-6q | 9 | 7 | 2 | 350 | 1.059 | 1.167 | . 800 |
| 65-69 | 6 | 4 | 2 | 200 | 1.091 | . 889 | - |
| 70-74 | 2 | 2 | - | - | . 500 | - | - |
| 75+ | 2 | 2 | - | - | - | - | - |

These ratios were computed from stated agea only. But together with ungtated ages the total population of 2,656 comprised 1,435 males and 1,221 females.
a This has been exprossed in proportion of males per 100 females.
b
An "age ratio" in a ratio of an enumerated age group to the average of its two adjoining groups, each sex being considered separately.

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## TABLE IX. 4 <br> SEX RATIO BY AGE GRGUP IN KISUMU TOWN <br> FROM GENSUS AND SURVEY DATA

| Age-Eroup |  | Sex ratio |
| :---: | :---: | :---: |
|  | Census data ${ }^{*}$ | Survey data |
| $0-4$ | 103 | 94 |
| $5-9$ | 88 | 91 |
| $10-14$ | 81 | 71 |
| $15-19$ | 88 | 81 |
| $20-24$ | 151 | 139 |
| $25-29$ | 163 | 185 |
| $30-34$ | 265 | 215 |
| $35-39$ | 336 | 232 |
| $40-44$ | 452 | 357 |
| $45-49$ | 573 | 308 |
| $50-54$ | 527 | 200 |
| $55-59$ | 561 | 267 |
| $60-64$ | 233 | 350 |
| $65-69$ | 264 | $200^{\circ}$ |
| $70-74$ | 75 | 200 |
| $75+$ | 93 | 200 |
|  |  |  |
| Source: |  |  |

Ominde, S.H.- Some Population
Characteristics of the main Urben Centres in Kenya; 1973.

| $\begin{gathered} \text { Age } \\ \text { group } \end{gathered}$ | Reasons for migration |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { ALL } \\ \text { REASONS } \end{gathered}$ | Unemployment | Land was not available at home | Could not enter a school | Lack of social amenities | Transfer to Kisumu | Other | $\begin{gathered} \text { Not } \\ \text { stated } \end{gathered}$ |
|  | $\begin{aligned} & \text { Num- Per- } \\ & \text { ber cent } \end{aligned}$ | $\begin{aligned} & \text { Num- Per- } \\ & \text { ber cent } \end{aligned}$ | Num- Perber cent | Num- Perber cent | Num- Perber: cent | Num- Perber cent | Num- Perber cent | Num- Perber cent |
| 15-15. | $39 \quad 7.2$ | $3 \quad 1.4$ | - - | $16 \quad 50.0$ | - - | 21.5 | 17: 11.7 | 1 14.3 |
| 20-24 | 9717.8 | $50 \quad 23.1$ | - - | 1443.8 | 1100.0 | $10 \quad 7.7$ | $20 \quad 13.8$ | 228.6 |
| 25-29 | $144 \quad 26.4$ | 67 31.0 | $3 \quad 20.0$ | 26.2 | - | $35 \quad 27.1$ | $37 \quad 25.5$ |  |
| 30-34 | 104 19.1 | $39 \quad 18.1$ | $2 \quad 13.3$ | - - | - - | $33 \quad 25.6$ | $28 \quad 19.3$ | 228.6 |
| 35-39 | $56 \quad 10.3$ | $23 \quad 10.6$ | - - | - - | - - | $21 \quad 16.3$ | 12.8 .3 | - - |
| 40-44 | 417 | 15 6.9 | 16.7 | - - | - - | $14 \quad 10.9$ | 117.6 |  |
| 45-49 | $31 \quad 5.7$ | 94.2 | 320.0 | - - | - - | 97.0 | 96.2 | 114.3 |
| 50-54 | 142.6 | 41.9 | $4 \quad 26.7$ | - - | - - | 43.1 | 21.4 | - - |
| 55-59 | $6 \quad 1.0$ | 20.9 | - - | - - | - - | 10.8 | 21.4 | 114.3 |
| 60-64 | $6 \quad 1.0$ | 16.7 | - - | - - | - - | - - | 3.2 .1 | - - |
| 65-69 | 30.6 | - | $1 \quad 6.7$ | - - | - - | - - | 21.4 | - - |
| 70-74 | 20.4 | 10.5 | - - | - - | - •- | - - | 1.0 .7 | - - |
| 75+ | 2.0 .4 | 10.5 | - - | - - | - - | - - | $1 \quad 0.7$ | - - |
|  | 545100.0 | 216100.0 | 15100.1 | 32100.0 | 1100.0 | 129100.0 | 145100.1 | 7100.1 |

## TABLE X. 2

RESPONDEHTS' PERCEPTIONS OF SALARY AND STAISDARD
OF LIVING AT PRESENT AND PREVIOUS RESIDENCE

| Response | Salary of standard of living |  |
| :---: | :---: | :---: |
|  | Number Percent | Number Percent |
| Better at Kisumu <br> (present residence) | 128341.1 | $235 \quad 52.0$ |
| Better at previous residence | $225 \quad 50.4$ | $190 \quad 42.0$ |
| Doubtful/don't know | $38 \quad 8.5$ | $27 \quad 6.0$ |
|  | $446 \quad 100.0$ | 452100.0 |
| Response rate | 78.5 percent | 79.7 percent |

TABLE X. 3

## FREQUENCY DISTRTBUTION OF FUTURE

MIGRATYON PLANS BY SEX


## TABLE X. $3 a$

## CHI-SQUARE ANALYSIS OF FUTURE MIGRATION PLANS BY SEX

| Future Uigration Plans | Sex |  |  |  | Both |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Nales |  | Females |  |  |
|  | Observed | Expected | Observed | Expected |  |
| To stay in Kisumu for good | 52 | 58.5 | 26 | 19.5 | 78 |
| To stay in Kisumu until retirement | 77 | 67.5 | 13 | 22.5 | 90 |
| To leave at one time | 223 | 213.7 | 62 | 71.2 | 285 |
| Uncertain about future plans | 74 | 86.2 | 41 | 28.7 | 11.5 |
| ALl MIGRATION PLANS | 426 |  | 142 |  | 568 |

Degrees of freedom: 3
Chi-square: 16.83
Significant at 5 per cent and 1 per cent levels.


## TABLE X. 4 a

CHI-SQUARE ANALYSIS OF FUTURE MIGRATION PLANS BY AGE-GROUP

| Agegroup (years) | Future Migration Plans |  |  |  |  |  |  |  | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | To stay in Kisumu for good |  | To stay in Kisumu until retirement |  | To leave at one time |  | ```Uncertain about future plans``` |  |  |
|  | Observed | Expected | Obse- rued | Expe- cted | Observed | Expected | Observed | $\begin{aligned} & \text { Expe- } \\ & \text { cted } \end{aligned}$ |  |
| 15-19 | 4 | 5.8 | - | 6.7 | 22 | 21.1 | 16 | 8.5 | 42 |
| 20-24 | 3 | 14.0 | 11 | 16.2 | 44 | 51.2 | 44 | 20.6 | 102 |
| 25-29 | 15 | 20.5 | 23 | 23.6 | 79 | 74.8 | 32 | 30.2 | 149 |
| 30-34 | 9 | 14.7 | 18 | 16.9 | 68 | 53.7 | 12 | 21.7 | 107. |
| 35-39 | 8 | 8.1 | 13 | 9.3 | 34 | 29.6 | 4 | 11.9 | 59 |
| 40-44 | 8 | 5.6 | 10 | 6.5 | 19 | 20.5 | 4 | 8.3 | 41 |
| 45-49 | 13 | 4.5 | 10 | 5.2 | 7 | 15.5 | 3 | 6.7 | 33 |
| 50-54 | 7 | 2.1 | 4 | 2.4 | 4 | 7.5 | - | 3.0 | 15 |
| -55-59 | 3 | - | 1 | - | 2 | 3.0 | - | 1.2 | 6 |
| 60+ | 8 | 2.9 | - | 2.2 | 6 | 7.0 | - | 2.8 | 14 |
| $\begin{gathered} \text { ALL } \\ \text { COHORTS } \end{gathered}$ | 78 |  | 90 |  | 285 |  | 115 |  | 568 |

Degrees of freedom: 27
Chi-square: 146.90
Significant at 5 per cent and 1 per cent levels.

TABLE X. 5
FREQUENCY DISTRIEUTION OF TYPOLOGY OF MIGRANTS BY ETENIC GROUP

| Ethnic group | Typology |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Migrants and nonmigrants | Temporary migrant | Permanent migrant | Nonmigrant |
|  | Number \% | Number \% | Number \% | Number \% |
| African | $527 \quad 92.8$ | 48397.6 | $30 \quad 60.0$ | 14.60 .9 |
| Asian | $20 \quad 3.5$ | 31.0 | 1224.0 | 313.0 |
| Arab | $14 \quad 2.5$ | - - | $8 \quad 16.0$ | $6 \quad 26.1$ |
| European | $6 \quad 1.0$ | $6 \quad 1.2$ | - | - - |
| Other | 10.2 | 10.2 | - - |  |
|  | 568100.0 | 495100.0 | $50 \quad 100.0$ | 23100.0 |

## TABLE X.5a

CHI-SQUARE ANALYSIS OF' TYPOLOGY OF MIGRANTS BY ETHNIC GROUP

| Ethnic group | Typology of migrants |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Temporary mierant |  | Permanent migrant |  | Nonmigrant |  | tcial |
|  | Observed | Expected | Observed | Expected | Observed | Expected |  |
| African | 483 | 459.3 | 30 | 46.4 | 14 | 21.3 | 527 |
| Asian | 5 | 17.4 | 12 | 1.8 | 3 | - | 20 |
| Arab | - | 12.2 | 8 | 1.2 | 6 | - | 14 |
| European | 6 | 5.2 | - | - | - | - | 6 |
| Other | 1 | - | - | - | - | - | 1 |
| ALL ETHNIC GROUPS | 495 |  | 50 |  | 23 |  | 568 |
| Degrees of freedom: 8 |  |  |  |  |  |  |  |
| Chi-square: 127.02 |  |  |  |  |  |  |  |
| Significant at 5 per cent and l por cent levels. |  |  |  |  |  |  |  |

TYPOLOGY OF AFRICAN RIGRANTS BY TRIBAL GROUP

| . Tribal group | Typology |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | MIGRANTS <br> AND NCN! <br> MIGRANTS |  | Temporary migrant |  | Permanent migrant |  | Nonmigrant |  |
|  | Frequency | \% | Frequency | \% | Frequency | $\%$ | Frequency | y \% |
| Luo | 404 | 76.7 | 369 | 76.4 | 25 | 83.3 | 10 | 71.4 |
| Luhya | 72 | 13.7 | 70 | 14.5 | 2 | 6.7 | - | - |
| Kisii | $11:$ | 2.1 | 11 | 2.3 | - . | $\therefore=$ | - | - |
| Kalenjin | 8 | 1.5 | 7 | 1.4 | 1 | 3.3 | - | - |
| Kikuyu | 13 | 2.5 | 13. | 2.7 | - | - | - | - |
| Kamba | 5 | 0.9 | 5 | 1.0 | - | - | - | - |
| Others | 14 | 2.6 | 8 | 2.7 | 2 | 6.7 | $\therefore 4$. | 28.6 |
| ALL TRIBAL GROUPS | 527 | 100.0 | 4831 | 100.0 | 3010 | 100.0 | $\therefore 14$ | 100.0 |

TABLE X. 7
FREQUENCY DISTRIBUTION OF MIGRANTS IN KISUMU BY SEX

| $\begin{aligned} & \text { Typology } \\ & \text { of } \\ & \text { migrants } \end{aligned}$ | Sex |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Both |  | Males |  | Females |  |
|  | Number | Percent | Number | Percent | Number | Percent |
| MIGRANT: | 545 | 25.9 | 409 | 26.0 | 136 | 25.8 |
| Temporary | 495 | 87.1 | 379 | 89.0 | 116 | 81.7 |
| Permanent | 50 | 8.8 | 30 | $\bigcirc 7.0$ | 20 | 14.1 |
| Non-migrant | 23 | 4.1 | 17 | 4.0 | 6 | 4.2 |
| ALL <br> RESPONDENTS | 568 | 100.0 | 426 | 100.0 | 142 | 100.0 |

## TABLE X.7a

CHI-SQUARE ANALYSIS OF TYFOLOGY OF MIGRANTS IN KISUMU BY SEX

| Typology of migrants | Sex |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fieles |  | Females |  | TOTAL |
|  | Observed | Expected | Observed | Expected |  |
| Temporary | 379 | 371.2 | 116 | 123.7 | 495 |
| Permanent | 30 | 37.5 | 20 | 12.5 | 50 |
| Non-migrant | 17 | 17.2 | 6 | 5.7 | 23 |
|  | 426 |  | 142 |  | 568 |
| Degrees of freedon: 2 |  |  |  |  |  |
| Chi-square: 6.66 |  |  |  |  |  |
| Significant at 5 per cent level |  |  |  |  |  |

TABLEX. 8
RREQUENCY DISTRIBUYION OF EYPOLOGY OF MIGRANIS BY AGE-G?OUP

| $\begin{aligned} & \text { Age- } \\ & \text { group } \end{aligned}$ | Typology of migrantz |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | MIGRANTS AND NON! MIGRANTS |  | Temporary migrants |  | Permanent migrants |  | Nonmigrants |  |
|  | Number | \% | Number | $\%$ | Number | \% | Number | $\%$ |
| 15-19 | 42 | 7.4 | 39 | 7.9 | 2 | 4.0 | 1 | 4.4 |
| 20-24 | 102 | 18.0 | 99 | 20.0 | 1 | 2.0 | 2 | 8.7 |
| 25-29 | 149 | 26.2 | 135 | 27.3 | 9 | 18.0 | 5 | 21.7 |
| 30-34 | 107 | 18.8 | 99 | 20.0 | 5 | 10.0 | 3 | 13.0 |
| 35-39 | 59 | 10.4 | 51 | 10.3 | 6 | 12.0 | 2 | 8.7 |
| 40-44 | 41 | 7.2 | 33 | 6.7 | 6 | 12.0 | 2 | 8.7 |
| 45-49 | 33 | 5.8 | 22 | 4.4 | 8 | 16.0 | 3 | 13.0 |
| 50-54 | 15 | 2.6 | 8 | 1.6 | 6 | - 12.0 | 1 | 4.4 |
| 55-59 | 6 | 1.1 | 3 | 0.6 | 3 | 6.0 | - | - |
| 60-64 | 6 | 1.1 | 2 | 0.4 | 2 | 4.0 | 2 | 8.7 |
| 65-69 | 5 | 0.9 | 2 | 0.4 | 1 | 2.0 | 2 | 8.7 |
| 70-74 | 2 | 0.3 | 1 | 0.2 |  | 2.0 | - | - |
| $75+$ | 1 | 0.2 | 1 | 0.2 | - | - | - | - |
| ALL COHORTS | 568 | 100.0 | 495 | 100.0 | 50 | 100.0 | 23 | 100.0 |
| Percent | 100.0 |  | 87.1 |  | 8.8 |  | 4.1 |  |

CHI-SQUARE ANALYSIS OF TYPOLOGY OF MIGRANTS BY AGE-GROUP

| $\begin{gathered} \text { Age- } \\ \binom{\text { group }}{\text { years }} \end{gathered}$ | Typology of migrants |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Temporary migrant |  | Permanent migrant |  | Non-migrant |  | TOTAL |
|  | Observed | Expected | Observed | Expected | Observed | Expected |  |
| 15-19 | 39 | 36.6 | 2 | 3.7 | 1 | 1.7 | 42 |
| 20-24 | 99 | 88.9 | 1 | 9.0 | 2 | 4.1 | 102 |
| 25-29 | 135 | 129.8 | 9 | 13.1 | 5 | 6.0 | 149 |
| 30-34 | 99 | 93.2 | 5 | $\bigcirc 9.4$ | 3 | 4.3 | 107 |
| 35-39 | 51 | 51.4 | 6 | 5.2 | 2 | 2.4 | 59 |
| 40-44 | 33 | 35.7 | 6 | 3.6 | 2 | 1.7 | 41 |
| 45-49 | 22 | 28.7 | 8 | 2.9 | 3 | 1.3 | 33 |
| 50-54 | 8 | 13.1 | 6 | 1.3 | 1 | - | 15 |
| 55-59 | 3 | 5.2 | 3 | - | - | - | 6 |
| 60-64 | 2 | 5.2 | 2 | - | 2 | - | 6 |
| 65-69 | 2 | $4 \cdot 4$ | 1 | - | 2 | - | 5 |
| $70-74$ $75+$ | 1 | 1.7 | 1 | - | - | - | 2 |
| 75+ |  | - | - | - | - | - | 1 |
|  | 495 |  | 50 |  | 23 |  | 568 |
| , |  | Degrees of freedom: 24 <br> Chi-square: 52.50 <br> Significant at 5 per cent and 1 per cent levels. |  |  |  |  |  |

ADEQUACY AND INADEQUACY OF FACILITIES IN KISUMU

| ```Situation OR facilities``` | Facilities |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Medical |  | Schools |  | Housing |  | Recreation |  | Transpor--tation |  | TOTAL |
|  | Observed | Expected | Observed | Expe- cted | $\begin{aligned} & \text { Obse- } \\ & \text { rved } \end{aligned}$ | $\left\lvert\, \begin{aligned} & \text { Expe- } \\ & \text { cted } \end{aligned}\right.$ | Observed | Expected | Observed | Expected |  |
| Adequate | 79 | 100.9 | 105 | 100.5 | 115 | 100, 7 | 162 | 95.3 | 44 | 107.3 | 505 |
| Inadequate | 483 | 461.1 | 455 | 459.4 | 446 | 460.2 | 369 | 435.6 | 554 | 490.6 | 2,307 |
| TOTAL | 562 |  | 560 |  | 561 |  | 531 |  | 598 |  | 2,812 |

Degrees of freedom: 4
Chi-square: 110.91
Signficant at 5 per cent and 1 per cent levels.

## TABLE XI. 2

SITUATION OF FACILITIES BY SAMPLE AREAS IN THE TOWN

| Area | Situations of Facilities |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Adequate |  | Inadequate |  | TO'TAL |
|  | Observed | Expected | Observed | 3xpected |  |
| 1 | 42 | 19.0 | 64 | 86.7 | 106 |
| 2 | 31 | 18.6 | 73 | 85.1: | 104 |
| 3 | 3 | 7.2 | 37 | 32.8 | 40 |
| 4 | 5 | 8.8 | 44. | 40.1 | 49 |
| 5 | 16 | 11.7 | 49 | 53.3 | 65 |
| 6 | 8 | 13.1 | 65 | 59.8 | 73 |
| 7 | 35 | 40.9 | 193 | 186.9 | 228 |
| 8 | 12 | 19.7 | 98 | 90.2 | 110 |
| 9 | 31 | 26.7 | 118 | 122.0 | 149 |
| 10 | 53 | 35.0 | 142 | 159.9 | 195 |
| 11 | 17 | 22.1 | 106 | 100.8 | 123 |
| 12 | 17 | 20.5 | 97 | 93.4 | 114 |
| 13 | 51 | 43.1 | 189 | 196.8 | 240 |
| 14 | 15 | 24.6 | 122 | 112.4 | 137 |
| 15 | 46 | 59.8 | 287 | 273.1 | 333 |
| 16 | 16 | 33.2 | 169 | 151.6 | 185 |
| 17 | 22 | 20.6 | 93 | 94.1 | 115 |
| 18 | 35 | 29.9 | 132 | 136.8 | 167 |
| 19 | 44 | 42.4 | 192 | 193.6 | 236 |
| 20 | 6 | 7.7 | 37 | 35.1 | 43 |
|  | 505 |  | 2,307 |  | 2,812 |

Degrees of freedom: 19
Chi-square: 96.20
Significant at 5 per cent and
1 per cent levels.

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## APPENDIX B

THE QUESTIONNA IRE


## I. IDEMTIFICATION

a. Full name of respondent $\qquad$
b. Location of Respondent house:

Address of residenc: House No. $\qquad$
Street No. or Name $\qquad$
Plot No. (if any). $\qquad$
Municipal Ward $\qquad$
Locality (Estate) $\qquad$
II. SEX

Male
Female
III. ETHNIC AND RRIBAL AFFILTATION

حa. Ethnic Origin: |  | African |
| :--- | :--- |
|  | Asian |
|  | Árab |
|  | European |
|  | Other |

If African
b. Which tribe do you belong to?
c. If Luo/Luhya/Kisia/Kuria (cross out that not applicable)

Give the following details:
Disturict
Division
Location


Sub-Location $\qquad$
IV. AGE

How old are you in completed years?

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-\quad 336 \quad-
$$

V. MARITAL STATUS

| $\sim^{\text {a }}$ Are you | Single |
| :---: | :---: |
|  | Married |
|  | Divorced |
|  | Widowed |



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\text { - } \quad 337
$$

If not attendine school now
c. Have you had any further oducation or
training in form of
University
Teachens Collegg
Other higher
education/training
Give details of other higher education or
training $\qquad$

VII:. ECONOMIC ACTIVITY
a. To what occupetional group did you belong before your migration to Kisumu?


Specify nons if it i.s the response $\qquad$
b. To what occupational group do you belong now?

Employer
Employce

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Own account worker
Student
Hone
Specify none if it is the response

c. Were you working or doing something else most of last week?

Working
Something else

$\qquad$
If something else
d. Were you looking for a wage job? YES $\qquad$ NO

If you have been looking for a wage job
e. How long have you been looking for a wage job?

1-3 weeks
1 - 11 months
1 year
Over 1 year
If always working but not at work most of last week
f. Why were you not at works

Leave
Illness


Specify other $\qquad$

$$
-\quad 339 \quad-
$$

## If working

g. tho are your employers?
h. In what occupational category do you fall?
Professional
Clerical
Craftsmen
Salesmen
Agriculture/Fishing
Domestic worker
Manual
Other
Unemployed
i. How many hours do you work?
Monday-Friday
Saturdays
Sundays
j. How many working days do you have in a week?


Speoify other if it is the response $\qquad$
k. Can you indicate your monthly income from your regular pre-ocoupation?


1. Given the ohance which would you prefer?

To retain your present employment in Kisumu $\qquad$
To go elsewhere on promotion
Other
Specify other $\qquad$
Not to be filled in
Employed
Not employed


Underemployed


Other $\qquad$
Specify other $\qquad$

IX. HOME
a. Where do you consider your home to be?

Place of Birth
Somewhere else

## If somewhere else

b. Where exactly is your home?


## If Kenya

d. Is your home in a town or in the countryside?

Town


Countryside

e. If in a town
e.

Which town?
If in the countryside
Which province?
Which district?

If in Nyanza/Western Province
District


Division


Location


Sub-location


Village

g. While in Kisumu, who lives at your home?

Father


Mother
Husband/Wife


Other relatives
Friends
h. Do you have a shamba or own livestock at home?

Shamba only
Livestock only
Both


None $\qquad$

## X. MOBILITY

a. Where were you living five years ago? $\qquad$
b. Where were you living one year ago? $\qquad$
c. Which was the first town you ever visited?

Year of visit
d. Have you lived in towns other than Kisumu?

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\text { - } \quad 344
$$


e. When did you first come to live in Kisumu? $\qquad$
f. Were there any relatives or friends in Kisumu at the time of your coming to live there?

Relatives
Friends


Neither
g. Whom did you stay with for some time?

Relatives
Friends
Neither


Neither
If neither, give details $\qquad$
h. Have you visited your home since you came to Kisumu?

YES
NO

i. Which would you prefer?
I. to stay in Kisumu

2 to move to another town
3 to move to the countryside
If the responses are 2 and 3, indicate the town
the countryside
XI. HOUSEHOLD DATA

Relationship to Respondent $\frac{\text { Sex }}{\mathrm{MOP}} \mathrm{F}$ Age in Completed $Y$
$\qquad$
$\qquad$
$\qquad$

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Total Number of Porsons in the Household
(including therendent) $\qquad$

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XII. ENVIRONMENTAL CONDITIONS
a. Would you say that the new Kisumu is a population centre too small too large
just the right size
don't know/doubtful

b. Which of these facilities in Kisumu do you think are adequate or inadequate?

Medical services

c. What reasons led to leaving your residence for Kisumu?

Unemployment
Land was not available

Could not enter a school
Lack of Social Amenities
Transfer to Kisumu
Other
Other (specify)

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
d. Generally speaking do you now find more satisfaction in life in terms of salary or standard of living in Kisumu than at your previous residence?

Salary
Standard of living
YES
NO
Doubtful/Don't Know

-

- What are your future plans with regard to migration Plans to stay in Kisumu

Plans to stay until retirement $\qquad$
Plans to leave at one time
Uncertain about future plans


Uncortain about future plan.
$\qquad$
Not to be filled
Temporary Nigrant
Permanent Migrant
Non-migrant $\qquad$

INTERVIEN INFORMATION

* $a_{a}$ Interviewer
b. Date $\qquad$
c. Approximate length of interview $\qquad$
d. Place of interview $\qquad$
e. How co-operative was the respondent? $\qquad$
$\qquad$
f. Do you have any comments on the reliability or otherwise about the information given by the respondent? $\qquad$ If so, give details $\qquad$
$\qquad$
$\qquad$
$\qquad$
g. Was the Respondent keen in listening to and interpreting the questions? $\qquad$
$\qquad$
h. Do you think he was sober or having no defects to influence his/her power of undorstanding and answering of questions? (Give details) $\qquad$
$\qquad$ (
$\qquad$ Con_
i. Give any useful comments that will help to under stand the Respondent's answore
$\qquad$
$\qquad$

(To be completed as soon as possible after each interview so as to avoid recall lapso).


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## FOST-SURVEY EVALUATION OF THE QUESTIOMNAIRE

It has beenstated elsewhere that the questionnaire adopted in the survey' aimed, inter alia, at experimentation in migratory behaviour within a particular town. But careful assessment of the size and workability of the questionnaire had to be made besides ensuring adequate coverage of all aspects that are involved in the phenomenon. The questions may be broadly classified into two categories. First, the questions relating to the migration procoss: birthplace information, home and mobility characteristics of respondents. Second, questions relating to migration differentials or selectivity due to differential attributes of migrants, namely, sex, ethnioftribal affilation, age, marital status, educational attainment, conomic activity, houschold characteristics and onvironmental conditions. The present section highlights the reasons underlying choice of questions and compilation of the questionnaire, post-survey evaluation of the questionnaire and recommendations regarding their use in other similar surveys.

The questionnaire sheet covered twelve basic items as follows:
I. Identification
II. Sex
 induced the author to ignorq it for analytical purposes.

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I. Identification

This consisted of the respondents' name and location of his/her house in Kisumu town. The name was necessary because ethnic or tribal affiliation of a respondent could be determined by or cross-checked against it. But since it is a rather sensitive factor enumerators were advised to ask it at the close of the interview if the respondent had not introduced himself before the interview. Only in one case did a respondent refuse to give his name. The second item here presented some problems: some housing units had no numbers, no street names and occupants wers often ignorant of plot numbers and municipal wards in which they were duly registered as voters. The most problematic areas turned to be in stratum C for reasons that have been mentioned before. Perhaps names of respondents would not be necessary particularly when the political climate is unfavourable within the country. But together with other factors it facilitates identification of respondents in terms of not only ethnic or tribal origin but also brithplace or home areas within the country.
II. Sex

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## III. Tribal Affiliation

## a. <br> Ethnio Origin

The major ethnic groups reported in censuses of East African countries are African, Asian, Arab, European and others not so classified. Though this classification has such vague synomymous terms as European and Whitoman or Asian and brown/yellow skins and so on, it was adopted in this work to avoid detraction from the usual nomenclature. "Other" included respondents who did not belong to any of the stated ethnic groups.
b. Tribe

Fig. 5 shows the tribal groups in Kenya from whom internal migrants into Kisumu town come. Other African tribes from Uganda and Tanzania or outside East Africa were also to be included. Some details concerning Dictrict, division, location and sub-locations were asked about tribal groups who hailed from the

Kisumu Rogion, that is, Nyanza end Wostern Provinces. Doapite some resentment on the part of some Luhya peoples such as the Maragoli of inclusion in the tribal name, this item presented no major problems. The details about administrative units helped to check whether respondents really belonged to the tribal groups that they claimed membership of or whether they lived in otherwise peculiar areas for marital or other reasons.

The main reason for asking othnic or tribal groups was to explain the ethnic or tribal structure of respondents and to make inferences about the town's population aa a whole. To some respondents the question was commonplace; but to a few others especially non-Luos it aroused much auspicion.

## IV. Age

Age reporting in tropical Africa is a significant source of error in demographic data whether reported in broad physiological age intervals - 2 and below, 1 to
puberty, puberty to menopause and after menopause or in terms of conventional age distribution with 5-year or 10-year intervala the problem still remains. In developing countries where birth registration is still in its infancy the only alternative is estimation of age on the basis of a list of some major past events, famines, wars, epidemics and so on. It was therefore sxpedient to compile a list of such events by depending both on that used in the 1969 census and on prominent old men in and around Kisumu town who explained the chronology of the events (sce Appendix D).

As age estimation is wrought with errors any anomalies regarding age structure of respondents deliberately reported incorrect ages for quite different reasons: youth below 18 years inflated their ages in order to qualify as voters in the forthcoming General Elections while adults lowered them to lengthen their working years and avoid retirement at what was otherwise the correct age. In the final analysis, however, age structure of respondents by five-year age groups is reasonably consistent with the normal situation; any discrepancies or anomalies are due to the influx of certain age-groups into the migration system of Kisumu as of other towns.
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Also, inconsistencies might be due to the tendency for females to report incorrect ages or enumerators to estimate wrong ages dependent upon physical outlook of females who, belonging to the same age-group, might look quite different due to socio-economic status of thein families or natally induced bodily weaknesses.

## V. Marital Status

The meanings attached to the four marital status; namely, single, married, divorced and widowed, have been given elsewhere. Some problems arose here with males and females alike. Young females wore shy to indicate that they were widowed as were females in stating whether single or married; the latter problem was experienced with barmaids, prostitutes and others classifiable as vagrants. Married persons were asked to state whether the spouse stayed together in Kisumu or elsenhere. However, this question did not pose any problems concerning its administration,
VI. Education

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for considering migration selectivity by the level of education reached. Education generally sharpens migrants' perceptions and aspirations and opens more avenues for some particular migrarts.
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a.
    Literacy Situation
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Respondents had to state whether they were completcly illitevate or whether they had passed or are still in the process pf passing through the formal schooling system. It became clear that the level of education reached influenced response to such questions as required memory work.

## b.

## Class Reached in School

The problem experienced here was conversion of nomenclature of classes over the years since the school system evolved in Kenya. But most respondents clarified the position by their sceptical conviction that contemporary educational standards are lower than at their time, an irrelevant but
> useful fact in knowing the olasses reached in school.
c.

Any Further Education or Training

This question was straightforward. Respondents easily stated the kind of education or training they had after completion of formal schooling.

## VII. Economic Activity

That the lower age limit of respondents was 15 years suggeste the importance attached to information pertaining to economic activity of the population. The question on occupational groap: employers, employee, own account worker, student and none before and after migration to Kisumu was intended to yield information of occupational mobility or chances in the process of spatial relocation of migrants. No respondent was reported as employer which suggesta either unnecessary inclusion of the item or respondents' misinterpretation of the term.

The question on looking for a wage job
(regular employment) presented some difficulties. Married women, for instance, were reluctant to give positive

masters here even if looking for employment. The number of those reported as unemployed is therefore suspiciously small (see Table V.2), and that of those effectively seeking employment even smaller (Table V.4).

Ocoupational category was based on Hirst!e classification in Bukoba* for comparative purposes and because the International Standard for Industrial Classification is too cumbersome to render comprehensible analysis of facts. Dofinitions of the nine occupational categories are found in Appendix B.

Working hours throughout the week had a lot of confusion as employees had difficulty in stating the specific number of hours. Also, the number of working days could not be properly ascertained in the case of those working in shifts or under some irregular systems. The two items were therefore overlooked in data analysis.

Incomes of respondents presented no major difficulties. But a few respondents complained that the question asked for too confidential information, aimed at income tax assessment and other related matters. Where no income was specified it could be estimated from an employee's designation at the place of work.

In filling the information as to whether a respondent was employed, unemployed, underemployed or other,


#### Abstract

$\therefore \quad 360 \quad-$ some difficultios were experienced. For this reason the term "underemployed" was completely deleted since it was badly confused with "unemployed". "Other" included school pupils, students and housewives who were not employed, While at the same time not effectively looking for employment.

\section*{VIII. Place of Birth}

This question was rather embiguous: place of birth could mean either the particular place in which a person was born, for example, hospital, or the country, district, division, location, sub-location or village of birth. It is the latter meaning of the question that was intonded in this survey and enumerators had to clarify it to respondents before recording any responses. Recent sub-divisions of smaller administrative boundaries from the division downards to the sub-location level injected some mistakes. Some respondents were completely ignorant of the most recent boundary changes.


## IX. Home

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of birth was repeated in this question. Home is hereby defined as the usual permanent domicile of a respondent. Thus there were:
a. those whose homes and birthpleces were the same whether it be Kisumu town or outside, and
b. . those whose homes and birthplaces were
different because of migration for various reasons, change of residence, change of work places or change of community membership e.g. merriage.
Besides contact between Kisumu and home (if outside Kisumu) was probed into with respect to parents, spouse, other relatives or friends as well as property or estates at home. These presented no administrative problems for enumerators and were easily understood by respondents.
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X. Mobility

Mobility was considered by asking residence five years and one year ago. Whereas these are specific time period recent enough to present no problems in memory lapse, the places of residence were too multifarious to be


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$$

easily classified. Thus in coding it was decided to classify places of residence as Kisumu or elsewhere for the two time. periods, 1968 and 1972 respectively. Also, specific dates should have been given as the base lines relating to five years and one year ago since a migrant who arrived in Kisumu in December, 1972, and interviewed in April, 1973, had not logically completed a year in the town. Logistics to this effect were ignored and what mattered was the year of arrival in the town.

Town lived in other than Kisumu was an important question in the context of mobility tendencies of migrants. Year of arrival and duration of stay in those towns explained some commitment in those towns vis-a-vis Kisumu. All responses pertaining to journeys on transit or a few days' stay in the towns were safely discarded.

The time of first coming to live in Kisumu referred to residence in the course of which the present enumeration was made. This is the bssis of Table VIII.3. Presence of relatives or friends might havo influenced the new migrant's stay with them before becoming more established to go it alone in the town. It is suggestive of chain migration on lineage or ethnic bases. No major
problems were experienced here.
Visits made homo since the current residence in Kisumu, like relatives and. friends at home, reflect continued contact with home. Froquency of these visita no doubt depends on several factors, distance, income, sex, age, urban commitment and so on but suggest the importance of circular migratory movements of which are the end-product of these short-tierm home visits. Several scholars have recognised circular migration in East as in other parts of Africa.

Unlike mobility preference on economic activity grounds, mobility preference here did not concern only employees. Rather, it included all respondents who might be either urban-urban or urban-rural migrants.
XI. Household Data

This question was rather touchy and sometimes elicited indifferent responses. Respondents suspected why information was needed about their relations in the household, their sexes and their ages. Different athnic or tribal groups had fears due to differential traditions and customs ani taboos; educational and fiscal suspicions also took effect. Perhaps the anomalous sex differentials at
age $0-4$ years might be attributed to the fact that such tender members of the household particularly males were thought to be adversely affected by revelation of their numbers or ages. See age-sex pyramids for Kisumu and some housing estates in the town. (Figs. 16 to 22). This was among the most difficult questions to administer by enumerators.
XII. Environmental Conditions

Environmental perception is an important factor in migratory activity of population. Some people may move to a town because of its sheer size in relation to other towns or because of certain pressing socioeconomic factors. Eventually they may move to other places after realising other attractives or when their initial illusions fail to hold.

The questions in this section apparently presented no problems of interpretation or administration. In fact, this was the most popular seotion of the questionnaire since, among other things, it recorded respondents' feelings about several facilities in the town, However, some respondents were reluctant to state reasons for migration, to compare salary and standard of living between
present and previous residence and to reveal their future migration plans.

On the basis of the last point migrants were classified on grounds of stabilisation in the town. On the one hand, are the temporary migrants who expect to move away at some future date; on the other, are permanent migrants and non-migrants whose continued stay calls for more appropriate urban planning on the basis of existing and potential urban facilities and regional resources.

## Intervien Information

This was important for assessing validity and reiiability of data collected. But most respondents did not complete it well, hence its deletion in analysis.

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APPENDIX C

INIERVIEVER'S MANUAL

## INTERVIENER'S MANUAL

A. GENERAL INTERVIEWING RULES

This manual has been prepared to assiat you in carrying out this task successfully. It is hoped that you will make it your standard reference in case you doubt anything; preparation that has gone into the survey will be futile if interviews are not properly conducted and the questionnaires not properly and accurately completed. Always aim at interviewing housoholds at their residence not individuals met on the street.

A successful enumerator shoula ncte the following points:

Ability to meet people

Since you are likely to come across people of all walks of lifo, it is important that you talk to them politely, that you listen more rather than talk more, that you be persuasive but not oveduly so, and that you explain the purpose of the survey to them.

## Manners and Temperament


#### Abstract

Always say the right thing at the right time. Be careful about your behaviour and other mannerisms which may offend or anger the respondents; and do not lose your temper even if faced by difficult situations.


## Flexibility

A successful enumerator must be able to adjust his plans quickly whenever unforeseen circumstances necessitate this. For example, if you find a prospective respondent throwing a party to friends in his house, do not insist on interviewing him. Ask him to give you an appointment to come back another day; and please keep to the appointed dey and time as this will earn you good reputation. Also, be adaptable to the urban conditions by being prepared to work from the oldest slum to the most modern housing estates.

A successful enumerator should impress his respondents at a glance. He should be tactful and sociable but not at the expense of his work. He should be available for the sort of routine and hours demanded in surveys.

## Refusals to accept interview

Whenever you find an antagonistic respondent Who simply refusea to answer any quastions, simply go on to the noxt dwelling unit. Insistence on interviewing the person may result in wrong answers and may lead to other respondents hating you.

## Recalls

Sometimes you may call in a house only to find the supposed respondent absent at that time. This forces you to call at other times or on a different day. When the respondent is out at the time of call, make two recalls and, if you still cannot find him, forget all about him.

Whom to interview

Please interview only the person selected for the survey. If that person is not at home at the time you call, try to find out when he/she will return. Meanwhile continue with the other sample units (dwelling places) and make an effort to return when you promise to.



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\section*{When the supposed respondent is to be away for long}


#### Abstract

There are cases when the supposed respondent is expected to be away for a long time e.g. on leave, on safari, etc. In this case find out when ho/ she is likely to come back so that you may maks further calls to interview him/her.


Introducing yourself to respondents

The successful enumerator will usually begin by stating what organisation he represents and perhaps showing an authorisation card. This may be followed by a brief statement of why, and for whom, the survey is being done, what is expected to emerge from it, to whom the results will be of interest and so on.

However, in this survey it is aldggested
to begin on a light note:
"Good afternoon/evenihg. I am $\qquad$
from the University of Nairobi. Here is my identification. The Municipality of Kisumu in conjunction with the Univorsity of Nairobi is making a survey of the people in Kisumu in an attempt to plan well this expanding town. I have some questions I would like to esk you, please."
)
If the respondent goes on to ask you to explain certain things, please be ready to do so. But do not be so weak as to go too far in, say, discussing politics and other irrelevant matters. However, if the respondent agrees to answer your questions, go ahead without wasting any more time.

## B. ASKING THE QUESTIONS

The paramount aim of surveys is to attain uniformity in the asking of questions and recording of answers for all households to be interviewed. Enumerators are expected to ask all the applicable questions, to ask them in the order given and with no more elucidation and probing than is ellowed. The questione should be asked as printed on paper throughout the interviews. Words like "really", "very" and other adjectives, adverbs should be avoided unless they appear in a question.

It should be realised that the respondent's
answer depends on the question asked him/her. Thus, a change in wording can very easily change the answer he/she gives.

Example: How old are you in completed years?" If you ask this question as

"How old are your", you have left out in completed yearg, which helps to restrict the respondent to his age in years completed, not months; or
"When were you born?". This is asking for the year of birth and age will be in years and months. Moreover the actual year of birth always presents a problem to respondents. question.

The example above illustrates the importance of sticking to the question as printed on paper. But whenever a question seems vague, repeat it or paraphrase it to make it clearer to the respondent without changing the meaning.

## Probing procedures

Sometimes you may need to express your interest or appreciation of what the respondent says. Do this without boing emotionally involved. Below aro examples of probing techniques.

# - 373 - <br> (a) Brief comment in agreement with the <br> respondent's answer 

To make convorsation flow you may say:
"Yes, I see". This enables the respondent to realise that you are interested in what he says and stimulates him to talk further and more freely. But do not be too fond of "I see" lest the respondent should suspect your truthfulness.

## (b) Repeating the question

This is necessary when the respondent does not seem to understand the question; you may see this by his going astray or being absent-minded in answering the question. Instead of rudely interjecting, "Anyway, I did not ask you that...", you may repeat the question at a slower speed and in an enquiring tone without changing the words in the question.

Sometimes you may repeat the respondent's answer without adding your own words or ideas. This may help in confirming whether the respondent actually means what he says. A sharp demanding and authoritative tone of voice can destroy good relations with the respondent.

It has been found that remarks such as "I'm not sure what you mean by that", "Could you tell me a little more about that?", arouse the respondent's desire to co-operate with you. But be attentive so that the respondent does not get the impression that you are not interested in what he says, or that you don't know what you are doing or saying, or that you do not recognise a properly answered question.

## Basig procedure by a skillful enumerator

The procedure should be:

1. to know the question objective roughly,
2. to know how to probe when the answer is
3. $\quad$ to maintain good relations with the
respondent throughout the interview.

## Closing the interview

It is important that when you come to the end of interviewing the respondent, you leave him with a friendly feeling towards you. After reviewing a

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respondent's answers with your supervisor you may find it necessary to go back to the respondent for more information. How would he react if at the close of interview you had left him with bad feelings towards you?


The order of closing the interview should be as follows:
(1) Look through the questionnaire to check whether all questions have been answered by the respondent.

When everything is in order, tell the respondent that you have enjoyed talking with him, that you would have stayed longer but for pressure of time, and that, on the whole you have been thankful for his co-operation.

NB.
Thus you may say:
"It has been very exciting talking to you $\mathrm{Mr} / \mathrm{Mrs} / \mathrm{Miss} . . . . . . . . . .$. . (at this juncture you may ask for the name if you didn't at the beginning of the interview)... I must regret that my stay has been too short but it is because time does not allow since I have to see other people. Once again, I thank you very much for your kindness and co-operation. Good-bye/night.

## C. DEFINITIONS OF TERMS USED*

Personal data

Age: in completed years or age at last birthday.
This is to be given in full years not in years and months. Where the actual age is not known an estimate is to be given based on "Guidance for age estimation".

Marital Status
"Single" means a person who is not married and has never been maxried ever since.
"Harried" includes all persons living together as husband and wife whether they were married according to locai custom, or in a church or civil wedding or simply living together; either of the two must recognise each other as married.

[^1]"Divorced" includes those who were previously living together as husband and wife but are no longer doing so (unless by now they have married someone else).

Ethnic group tribal affiliation

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    The major ethnic groups are African,
Asian, Arab, and European "other" refers to those
not so classified.
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## Note:

Enumerators should not ask whether a person is born of (African) man and (African) woman. Respondents should state their ethnic group, which should be recorded by enumerators as such.

African tribes

In Nyanza and Western: Luo, Luhya, Kisii, Kuria, Kalenjin group.

Other Kenya tribes: e.g. Kikuyu, Kamba, Zmbu, Meru, Mjikenda, etc.

Non-Kenya tribes: will be known by respondents' countrics of origin and domicile.
"Employer" - somebody who employs people, when he pays Hages, to work for him/her.
"Employee" - somebody mployed by another person, government body, company or other private concern to work for him or it, and who receives wages or other benefits for his labour, e.g. messenger, teacher.
"Own account worker" - a person who runs his/her own business without being employed by somebody else and whose income depends solely on his efforts. He himself may rank as an employer e.g. shopkeeper with a few salesmen in his shop.

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"Student" - this includes a person attending school,
college, university or other institution full-time.
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"None"-․ not falling in any of the above categories, e.g. unemployed and underemployed people.

Something elze "othor" includes doing something other 4 then the regular work most of last week - home makers
(housewives, etc.), pupils and students, retired persons and those who after resignation were doing nothing; plus those specified (on leave, or ill).

Occupation: or, the kind of work. The following classification is but illustrative:

1. Professional workers: teachers, preachers, nurses, orderlies, extension officer, administrators, urban court assessors, policemen, prison warders.
2. Clerical workers: clerks, typists, interpreters, office messengers.
3. Craftsmen: shoemakers, mechanics, carpenters, other wood workers, blacksmiths, builders, bricklayers, curio makers, barbers, tailors; painters, plumbers.
4. Salesmen: shop-assistants, shop-owners, butchers, hawkers, traders.
5. Agriculture Fishing: This includes peasant farmers, gardeners, fishermen and fishmongers. Most of the former peri-urban residents have a bias to rural life.
6. Domestic workers: houseboy, housemaid, cook, garden boy, ayah, waiters, cleaners.
7. Manual workers: general labourers, machine operators,

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watchmen, drivers, firemen, packers, sorters, herdboys; dairy-hands, tree planters, lumbermen.

Note

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It is enough to state the occupation itself or to describe the actual job done at place of ! work, not the class of occupation, which may later be , recorded by the enumerator.
```

Household data

Household: a group of persons who live together and share their living expenses. Usually this will be a nuclear family $i, e$, the husband, wife and children. Also to be included here are other relatives, boarders, visitors and servants if they are present in the household at the time of enumeration or are expected to be members of the household until such a time as they may decide to stand on their own.

Persons living alone, in, say a room
within the same dwelling unit, where they do not depend on another household, should be considered as a separate householde.

Housing unit: a room or group of rooms occupied as soparate living quarters. Its essential oharacteristics are: it is intended for ocoupancy as separate living quarters it has cooking facilities for the use of the occupants; it has direct access i.e. not through another housing unit.

Relationship to Respondent: these may include the following:

Wife
Son
Daughter
Other rolative (exact relationship not necessary)

Boarder
Visitor
Servent
Anyone usually resident elsewhero, even if a relative should be considered as a visitor.

Age: in completed Jears or age at last birthday. Where the actual date is not known an estimate may be given. Age should not be given in years and months.

ENVIFONMENTAL CONDITICNS

This item is intended to drew information about respondents' environmental perceptions and aspirations relating to future mobility.

New Kisumu as Population Centre

This includes the newly gazetted municipal boundaries considered as a unit. Size of the town would be related to that of other towns already visited by respondent; those without experience of other urban centres might relate it to their nearest local centres. Respondents realisation of rapid urbanisation of the town might be gauged from their responses.

Facilities:

The list is illustrative rather than exhanstive. These facilities can easily combat the major transitional problems in the development of poatindependence Kenya, namely, illiteracy (schools), poverty and disease (medical facilities). Nedical facilities include public hospitals, clinics and

dispensaries and private practioners which, however, are not within reach of most people in the town. Schools comprise primary, secondary and teohnical educational systems which enhance elimination of poverty by producing highly skillod manpower. Housing units consist of rental houses occupied by urban residents. They are important as far as stabilisation of migrants in the town is concerned. Recreation includes sports and games, cinemas, theatres, nightclubs, bars and restaurants and other facilities intended for physical or mental refreshments after routine work which often dulls both body and mind. Transportation covers publio transport within the town by public buses connecting different parts of the town. It excludes personal cars which have very little bearing on members of the public.

Reasons for migration to Kisumu.

As in the foregoing the reasons spelled out here are not exhaustive. They were chosen to yield some information respectively concerning economic opportunities (unemployment is the "push" factor); population pressure on land (land was not available); education as a "pull" factor in the town (could not enter a school); social


#### Abstract

attractiveness of the town in terms of several amenities (lack of social amenities at previous residence); involurtary or sometimes voluntary migration (transfer to Kisumu by employers or on a migrant's initiative) and other reasons different from these. The possible responses are underlined.


## Perceptions of salary and standard of living

Salary may be regarded as the oriterion for urban in-migration and as the fulcrum on which the urban standard of living rests. Satisfaction due to these two parameters of socio-economic status may enable migrants to weigh their life in the present against the previous residenco. Furthermore, it may enhance stabilisation in the present or engender the desire to migrate to another town.

Future migration pians

These were based on the current socioeconomic position of migrants in the town. There were those who expected to stay in Kisumu for good notwithstanding any adverse shocks and strokes in their lines;

the employed or self-employed migrants who expected to outmigrate after retirement; those who expected to leave at one time whether they be economically active or inactive; and others who were unoertain about their future mobility in terms of time or direction of the move.

## Classification of migrante

From the future migration plans of respondents, enumerators easily classified migrants as temporary, permanent and non-migrants. Likely combinations were as follows:

| Future migration plan | Where Born | Typology <br> of migrant |
| :--- | :--- | :--- |
| Plans to stay in Kisumu <br> for good <br> Plans to stay in Kisumu <br> for good <br> Plans to stay until retire- <br> ment <br> Plans to leave at one time <br> Uncertain about future plans | Kisumu town | Non-migrant |

In the last case it was postulated undecided responses be treated as temporary migrants since they have little commitment in the town.


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## APPEUDIX D

## GUIDANCE FOR ACE ESMIMATION



## Year Luo Name Keaning in English



Oraya

Occurred at different periods in Central Nyanza (now Siaya and Kisuma) and South Nyanza Districts.


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APPEMDIX E

ADNTMISTRATIVE DISTRICTS OF RURAL KENYA

## MYANZA PROVINCE

## Kisii

Kieumu
Siaya
South Nyanza

WESTERN PROVINCE

Bungoma
Busia
Kakamega

## RIFT VALLEY PROVINCE

Baringo
Elgeyo-Marakwet
Kajiado
Kericho
Laikipia
Nakuru
Nandi

## Narok

## Samburu

## Trans Nzoia

Turkana
Uasin Gishu
West Pokot

CENPRAL PROVINCE

Kiambu
Kirinyaga
Murang ${ }^{2}$
Nyandarua
Nyeri

EASTERN PROVINCE

Embu
Isiolo
Kitui
Machakos
Marsabit

## Меги

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NORTH-EASTERN PROVINCE

Garissa
Mandera
Wajir

COAST PROVINCE

Kilifi
Kwale
Lamu
Mombasa
Taita
Tana River
*
There are 41 administrative districts in Kenya, 40 rural districts and the Nairobi Sotre-Provincial district which is administered as Province.

[^2]
## URBAR CENTRES OF KENYA BY POFULARION*

| Urban Centro | Fopulation |
| :---: | :---: |
| ALL CENTRES | 1,079,908 |
| CENTRES ABOVE 100, 000 MARK | 756,352 |
| 1. Nairobi | 509,286 |
| 2. Mombase | 247,073 |
| CENYRES WITH 10,000-99,999 POPULATION | 170,267 |
| 3. Nakuru | 47,251 |
| 4. Kisumu | 32,431 |
| 5. Thika | 18,387 |
| 6. Eldoret | 18,196 |
| 7. Nanyuki | 11,524 |
| 8. Kitale | 11,573 |
| 9. Malindi | 10,757 |
| 10. Kericho | 10,144 |
| 11. Nyeri | 10,004 |

[^3]| CENT | RES WITH 5,000-9,992 POPULATION | 71,396 |
| :---: | :---: | :---: |
| 12. | Isiolo | 8,201 |
| 13. | Nyahururu (Thomson's Falls) | 7,602 |
| 14. | Lamu | 7,403 |
| 15. | Naivasha | 6,920 |
| 16. | Marsabit | 6,635 |
| 17. | Machakos | 6,312 |
| 18. | Kakamega | 6,244 |
| 19. | Kisii | 6,080 |
| 20. $\}$ | Athi River Elburgon | 5,343 ) <br> 5,343) |
| 22. | Voi | 5,313 |
| CENTR | RES WITH 2,000-4,992 POPULATION | 81,386 |
| 23. | Murang ${ }^{\text {a (Fort Hall) }}$ | 4,750 |
| 24. | Meru | 4,475 |
| 25. | Bungoma | 4,401 |
| 26. | Wundanyi | 4,385 |
| 27. | Molo | 4,240 |
| 28. | Gilgil | 4,178 |
| 29. | Lokitaung | 4,090 |
| 30. | Emba | 3,928 |

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-\quad 397
$$

## Urban Centre

CENTRES WITH 2,000-4,999 POPULATION con...
31. Maralal
3,878
32. Galole

3,609
33. Homa Bay

3,252
34. Kitui

3,071
35. Njoro

3,037
36. Londiani

2,994
37. Kiambu

2,776
38. Eldama Ravine

2,692
39. Kilifi

2,662
40. Namba

2,650
41. Narok

2,608
42. Lumbwa

2,577
43. Kinango

2,450
44. Karatina

2,436
45. Baragoi

2,383
46. Kapsabet

2,298
47. Migori

2,066

APPENDIX G

HYPOTHESES TESTED FROM DATA COLLECTED

## HYEGHESES TESTED FROH DATA COLLEGTED

| Fiypotheses | Level of Significance 5\% 1\% |
| :---: | :---: |
| i. There is significant difference in age distribution between male and female respondents. | $x \quad x$ |
| 2. There is sienificant difference in marital status of the two serez. | $x \quad x$ |
| 3. Fducational attainment djffers significantly in all age eroups. | $x \quad x$ |
| 4. Responatats changed economic etaiun after migration. | $x \quad x$ |
| 5. There is aignificant difforence irs occupational caivegory between males and temaies. | $x \quad x$ |
| 6. Employmert situation in the town has sex bias. | $x \quad x$ |
| 7. There in significant difference in residence of respondents between 1968 and 1972. | $x \quad x$ |
| 8. There is significant difference in the number of towns lived in botween (temporary and pernenerit) migrants and non-migrants. | $\mathbf{x}$ |
| 9. The presence of relatives and friends influenced migrants! stay with them in the early stages or in-migratior. | $x \quad x$ |

10. There is significant difference in visits home between age groups. . $x$
11. Future migration plans have sex bias. ..... x
12. There is significant difference between future migration plans for different age groups. ..... $x$


13. There is significant difference between the type of migrants in terms of ethnic groups. $x \quad x$
14. The type of migrants differ significantly by sex. ..... x
15. There is significant difference between ages of different types of migrants. ..... $x$ ..... $x$
16. The facilities are generally inadequate in the town. ..... x ..... $x$
17. There is significant difference in the situation of facilities between the sample areas. ..... $\mathbf{x}$ ..... $x$


[^0]:    * Nobility preferences in question Here similar to Fabricant's options already mentioned.

[^1]:    * 

    These are terms used in the questionnaire. Enumerators had their manuals attached to these terms in order to bring about consistency in the interviews.

[^2]:    APPENDIX F

[^3]:    * In Kenya all centres with population of 2,000 or more rank as urban centres. This gave a total of 47 such centres in the 1969 Population Census. Fopulation figures here were reported in the census.

