REGIONAL INSTITUTE FOR POPULATION STUDIES AT THE UNIVERSITY OF CHANA, LEGON

AGE AT PIRST MARRIAGE AND PERTILITY IN KENYA

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September, 1992.

LECLANTION

I herely icclare that except for references to other prople's work which have been duly acknowledged, this is the result of my own research and that it has neither in part nor in whole icon presented for another legree.

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INTRODUCTION

1.1 Background of the Study

The institution of marriage has been a major foundation of the social fabric. As the initial step of family formation, many aspects of social life are directly or indirectly related to this institution. According to Radcliffe-Brown¹ marriage is a rearrangement of the social structure, which is an arrangement of persons in institutionalized relationships. In a similar manner the United Nations² defines marriage in a traditional manner as the start of socially approved exposure to sexual relations and much more importantly, it legitimates parenthood and ensures that "no child (in the kin) should be brought into the world without a man assuming the role of a sociological father".

In Africa, marriage has a definite meaning which varies among different cultural groups of people. This variation is due to the emphasis of certain cultural practices and this makes it difficult to formulate a general definition for marriage in Africa. Customary marriage is the type most frequently encountered and recognized in most African societies.

In African societies marriage was mainly for procreation and a marriage was only recognized when the birth of a child

2. United Nations, <u>First Marriage: Patterns and</u> <u>Determinants</u>, Department of International Economic and Social Affairs, ST/ESA/SER. R/76, New York, 1986.

^{1.} Radcliffe-Brown, A.R., and Forde, C.D. (eds) African Systems of Kinship and Marriage, Oxford University Press, London 1950, p. 44-49.

occurred. As Kadeliffe-brown¹ claserves marriage in Africa is not an event lut a process with the most important stage leing the lirth of the first child. This makes it difficult to determine when marriage actually legins in the African systems. Demographers, are interested in the relationship of marriage and fertility and therefore recognize any union (heterosexual) as marriage since any such union will influence fertility.

In the traditional setting of most African communities in Kenya, marriage is and was an obligatory experience for an adult. Teenagers were encouraged to marry due to pressure from parents, peer groups and the society registered its approval of this in diverse manner. This has an effect on lowering the age at marriage as in most African countries. Fortes² observed that in Ghana a Tallensi woman is married as soon as she is nubile which results in few fertile women reaching age twenty without having had at least one pregnancy. Marriage is still a universal cultural institution used in Kenya to regulate and sanction the cohalitation of couples and their consequent fertility performance. It is governed by various marriage laws namely muslim, customary, christian and hindu.

Fertility which is defined as the actual reproductive performance, is mainly within marriage and fertility is

I. Radcliffe-brown, Op.cit.

Fortes, M., "Kinship and Marriage Among the Ashanti" in kaucliffe-brown, A.R. and Forde, D (eds) <u>African Systems</u> of Kinship and Marriage, Oxford University Press, London 1950, p. 276.

termined by various factors both biological and peio-cultural. Within marriage a woman is regularly exposed the risk of childbearing. Duration of marriage therefore comes an important determining factor of fertility. Age at rriage is an important factor in determining duration of sposure to the risk of childbearing, bearing in mind that the productive period of a woman is more or less constant and les within the age range of 15-49 years. As such age at arriage is inversely related to duration of exposure and ertility.

In Kenya age at first marriage is low and almost viversal. In the KDHS¹ 1989 it was observed that more than) per cent of the women married under the age of 20 years .e. 54 per cent) and only 3.1 per cent married at the age of) years and over. Only 26 per cent of the women had never viried.

.2 Statement of the Problem

Kenya is a country that has experienced very high pulation growth ever since the first national census was inducted in 1948. The total population then was estimated at 6 million and by 1979 the population had almost tripled at 1.3 million. The growth rate has been high and increased to 1 per cent in 1984 as observed in KCPS² data (highest ever ¹corded in the world). This rapid growth has already started howing its effect through population pressure in terms of

Kenya, Demographic and Health Survey, 1989.

Kenya Contraceptive and Prevalence Survey, 1984.

rising unemployment, underemployment food shortages and land encroachment to marginal areas.

This rapid population growth rate in Kenya, could be explained by the high fertility observed. Fertility levels since 1977 show a declining trend (see table 1).

| Year | Surveys/Census | TFR |
|------|----------------|-----|
| 1977 | NDS | 8.0 |
| 1978 | KFS | 7.9 |
| 1979 | Census | 7.6 |
| 1984 | KCPS | 7.7 |
| 1989 | KDHS | 6.7 |

Table 1.1Total Fertility Rates for Censuses and Survey 1977-1989

Source: KDHS 1989 Table 3.1 p.18.

Fertility is a major dynamic element determining the demographic character of a population. High fertility with other things remaining constant will result in a very young population as is the situation in Kenya where about 52 per cent of the population is aged under 15 years. This is a large dependent population which raises government's concern.

Marriage as a social institution governing childbearing has a great influence on level of fertility. Various demographic studies have shown that marriage is early and nearly universal in Kenya. In a society like Kenya where modern contraceptive use is low as observed in the recent KDHS 1989 (at about 27 per cent) then duration of marriage becomes very important in determining fertility. Age at first marriage determines caset of regular exposure to risk of childlearing. As such early marriage, other things remaining constant will ultimately lead to high completed fertility.

Variation in age at first warriage has been observed awong different ethnic groups, religious groups, regions, place of residence and level of education. Low age at warriage has been observed awong the wijikends ethnic group, rural residents, coast region people, low education category and among the muslius and fertility has been observed to be high among wowen who marry early especially when fertility depressing factors are absent.

Low age at warriage is a problem that has been recognized by the government particularly because it is associated with the high female drop outs especially in primary and lower secondary. Age at wenarche has been used in wany societies as an indication of waturity and in wost cases girls were prepared for warriage indeviately after on set of wenarche in the tradition society. In Kenya, age at wenarche has been observed to be declining due to improved nutrition. If early wenarche is coupled with early warriage, then fertility is expected to increase.

The question therefore arises; Are there warked differences in age at warriage awong kenyan fewales? If there are, what are the factors influencing such differences? To what extent do these differences affect fertility? Are there

other factors that intervene between age at first warriage and fertility? These are some of the questions that this study will attempt to answer.

1.3 Rationale

Extensive research has been done on age at first warriage and fertility in wany Asian and Latin Awerican countries where a negative relationship has been observed. However, little has been done in Africa and in particular sub-Saharan Africa. In Kenya as is typical of sub-Saharan Africa very little attention has been given to this relationship.

Age is an important demographic variable as many physiological and physical changes take place by age of an individual. Previous studies focusing on fertility and marriage have ignored the age at which marriages begin, which has important implications on completed fertility. In a society like Kenya where fertility has been observed to be high and contraceptive use is low then, marriage becomes an important determining factor in fertility, especially since it has been observed that marriages are nearly universal in Kenya.

Early marriage has been observed to influence fertility indirectly through other factors; like it means that the women have low education attainment, less mature which are factors that influence decision making about family size.

Since age at marriage has been observed to be not only a major determining factor in fertility but little of this kind of study has been done in Kenya, this study becomes very timely. An investigation in the age at first marriage and

fertility in Kenya will therefore advance an understanding of the relationship. Such information will be useful during policy formulation.

1.4 Objectives

The ultimate objective is to provide information relating to effect of age at first marriage and fertility in Kenya, which may be useful to decision makers in formulating policies aimed at reducing fertility.

Specific objectives include:

- (i) To explore the socio-economic and demographic differentials of age at first marriage in Kenya.
- (ii) Examine the relative influence of age at first marriage on fertility and in the process see the relative importance of a few other variables.

1.5 Literature Review

Majority of studies so far carried out on the relationship between age at first marriage and fertility have shown that age at first marriage is probably the most important variable associated with fertility change.

Adioctomo¹ using data drawn from the Indonesian Fertility Survey found that women who married before their 15th birthday had on the average, twice as many children as those who married at age 25 years or older. He also observed that women marrying in these extreme ages have longest birth

Adioetono, S.M., "Age at Marriage and Fertility in Java-Bali, a question of natural or controlled fertility" Indonesian Journal of Demography, 1989 Dec., 10(20) IV-V, 49-72.

intervals. The interval decreases with age to minimum at age 22-24 years old and then rises again.

In his study among currently married women in rural Egypt, Kafafi¹ using a rural fertility survey, observed that women married at age 21 years or above had on average 2.3 fewer children- than those married under the age of 15 years. More-over women who had a child that had died had an average of 3.5 children more than those who had not lost a child. He therefore concluded that age at first marriage has a direct negative effect on family size and an indirect effect via child mortality since child mortality was observed to be negatively related to age at first birth.

Loza² studied the effect of age at marriage on fertility in 5 socio spatial environments in Egypt. For the cohort 30-34 years of $a_{1,6}$, the difference in average parity between women who married below age 16 years compared with those who married at age 19-21 years in urban villages, 3 births in industrial workers residences, 2.1 births in semi-urban cities and 1.3 births in urban cities. The average number of births of the same cohort was lower with higher age

 Loza, S.F., "Differential age at marriage and Fertility in Egypt", in Determinants of Pertility in some African and Asian Countries, Cairo, Egypt, Cairo Demographic Centre, 1982, 51-66 (CDC Research Monograph Series No. 10).

Kafafi, L.H., Age at Marriage and Cumulative fertility in rural Egypt, Durham, N.C. Duke University, 1983, p. 140.

at marriage in all 5 environments studied. The differences were not much when duration of marriage was controlled.

Lee¹ analysing the 1974 Korean National Survey and 1971 Fertility -Abortion Survey Observed that women with higher education levels had fewer children because they warried late and not because they bear fewer children.

Place of residence was found by Patnaik² to have an effect on age at marriage. He observed the rural female spouses has lower median age at marriage than urban female spouses, negative relationship between age at marriage and fertility and mean parity tend to decline with increasing age at marriage. The mean children ever form was 5.06 for those spouses who married under 15 years, 4.4 for those who married in age group 15-19, 3.31 children for those who married in age group 15-19, 3.31 children for those married at age 25 years and over. He concludes that late marriage is one of the most important factors effecting a change in fertility.

Mohatanel³ use' two sets of mutivariate analyses to examine the interactions between age at first marriage and fertility as dependent variables and age, province, rural--urban residence, wife's educational status, husband's occupation as

Lee, B.S. Development of an Economic Fertility Model for Less-Developed Countries an examination of Fertility, Age at marriage and Female labour Force Participation in Korea, Final Report (Unpublished), 1981, May 415 p.

Patnaik, M.M., "Age at Marriage and Fertility Behaviour", Indian Journal of Social Work, 1981 Oct. 42(3): 239-46.

^{3.} Mohammed, A., "Age at First marriage and Cumulative Fertility in Pakistan", in <u>Multivariate Analysis of</u> <u>Nuptiality and Fertility for Selected ESCAP Countries</u>, (Asian Population Studies Series No. 59).

independent variables. He observed that the mean number of children is higher (4.3) for urban areas than rural areas (4.14) and age at marriage is also higher for educated women. The higher parity can be explained by the migration of rural women to urban areas and partly by the rural characteristics of urban areas. He further observed that increasing age at marriage significantly reduces fertility.

Ethnicity is another factor associated with age at marriage. As was observed in the Kenya contraceptive and prevalence survey¹ of 1984 the dijikenda ethnic group of Kenya had the lowest SMAM while the Kikuyu ethnic group had the highest. The same data showed that the Lub ethnic groups who have a high prevalence of polygyny have a low age at marriage as compared to the Kikuyus who are highly monogamous. It was however observed that completed fertility among the two ethnic groups was not very different. Thus can be explained by the practice of long period of abstinence atong the Luos which is either absent or very short among the Kikuyus. This shows that fertility is not affected by age at marriage because of intervening factors.

Chen² analysing a sample of women married below age 50 from a survey lata of Xian city, China, observed that median age at first marriage increased from 21.6 in 1962 to 25.5 in

 Chen, C.H., Fend, Z., Rochat, R.W., Effect of Age at Marriage on Fertility in Xian City the People's Republic of China, (Unpublished) 1983-23 p.

^{1.} Kenya, Contraceptive and Prevalence Survey, 1984.

1981. The analysis showed that an increase of 1 year in ale at marriage decreased the number of livelinths by .10.

Ogawa¹ applying the multivariate analysis on World Fertility Survey data for selected ESCAP countries observed that age at marriage has a strong effect on mean parity. He observed a difference of 2.3 children between those married under 15 and those married at ages 22-24 years.

Sinha² in his study in Eastern Rajasthan observed that an average of 1.3 additional live births or an average of 0.7 addititional living children were reported for women who had completed their family size (age 40-45) and who were married before age 15 as compare to those who had married later.

Penagli,³ found that the higher the education the higher the median age at marriage and this is even higher for those in urban than in rural lackground in Greater Freetown, Sierra Leone. She further established that age at first marriage is influenced by educational status which seems to determine marital fertility in Greater Freetown. On average, women with primary education were found to have their first birth earlier than those in other educational categories.

 Sinha, K.K., "Impact of Age at Marriage on Fertility and Completed Family Size in Eastern Rajasthan" Journal of Family Welfare, 1967 Sept. 34(1): 32-40.

 Petagle Jeneh, B., "Fenal: Education and Fertility in Greater Freetown, Sierra Leone" N.A. Thesis (Unputlished), RIPS, University of Ghana, Sept. 1985.

Ogawa, N, Rele, J.K. "Age at Marriage and Cumulative Fertility in Sri Lanka, in ESCAP 1981 227-66 (Asian Population Studies Series; No. 49).

Khuda¹ also diserved this negative relationship in age at marriage and usan children ever form in Bangladesh. He observed that the mean children ever form to ever married women was 4.96 children for those who married under age 16 years and only 3.38 fpr those who married after their 16th birthday. The mean number of children was also positively and significantly related to the duration of marriage. The study demonstrated that age at marriage does have an effect on fertility.

Age at marriage is an important determinant of fertility even in less-developel societies which generally have high fertility. Bhargava² in his study of shun dwellers in Greater Bontay observed that average number of children ever torn was 3.50 for those who married below 13 years of age, 3.04 for women marrying at ages 13-15 years, 2.56 when marriage occured at 16-18 years, 2.41 among those marrying at 19-21 years, 2.34 when marriage occured at 22-24 years, 2.19 among women marrying at 25-27 years and only 0.94 among those who married at 28 years of age and alove.

Bhatia³ using sultivariate analysis to examine the effect of age at marriage on the fertility of a sample of rural Ghannian women observed a statistically significant negative

 Bhatia, J.C. "Age at Marriage and Fertility in Ghana (Most Africa)" <u>Demography India 1983</u>, July-Dec., 12(2) 185-93.

^{1.} Khuda, B., "Age at Marriage and Fertility in a Rural Area of Banglalesh", Asian Profile 1985 Dec. 13(6): 541-53.

Bhargava, P.K., "Changes in the Age at Marriage and its Effects on Fertility: a Study of Slud dwellers in Greater Boulay", Journal of Family Welfare, 1984, Sept. 31(1): 32-6.

relationship between female $a_{2}e$ at marria₂e and fertility. The inverse relationship between $a_{2}e$ at first marria₂e and fertility was most pronounced for the total sample as well as for different $a_{2}e$ proups.

Owideyi¹ using data from Eastern Nigeria observed that postponement of marriage does not reduce fertility if there are intervening factors like replacement of breastfeeping by lottlefeeding. She observed that although educated women tended to postpone age at marriage, the fertility of these women at longest durations of marriage, was not significantly different from that of women who married earlier.

Henry-Fictrew² using data from Asia, middle East, Africa and Latin America, observed that women who marry in their mid or upper 20s tend to have fewer children than women who marry earlier.

An inverse relationship between fertility and age at first marriage was observed by Sembajwe³ in Western Nigeria. This, as had been observed by Omideyi in Eastern Nigeria, was due to intervening factors which he explained as short birth spacing among women who married late in life.

- Omideyi, A.K., "Age at Marriage and Marital Fertility in Eastern Nigeria" Genus 1963, Jan-Dec. 39(1-4): 141-54.
- Henry, A., Piotrow, P.T., Age at Marriage and Fertility baltimore, Maryland, John Hopkins University, Population Information Programme, 1979 Nov. 55 p. (Population Reports Series M. No. 4).
- 3. Seclajwe, 1., "Effect of Age at Marriage, Number of Wive's Type of Marital Union on Fertility", Journal of Biosocial Science 11(3):341-351, July 1975.

In his study in E,yit, El-Guindy¹ observed that in Egypt age at marriage is important where few people use Lirth control method, locause it prolongs the childlearing period. He diserved that the singulate mean age at marriage increases by 1.2 years within a 13 years period and all age specific marriage rates except for women aged 45-49 declined from 1947 to 1960.

 El-Guindy, M.H., Age at Marriage in Relations to Fertility in Egy,t in Fertility Trends and Differentials in Aral Countries, Cairo, Cairo Demographic Centre, 1971, p. 107-115.

1.c Conceptual Francework

The review of literature in the precessing section has revealed that age at sarriage is a sajer determinant of fertility and it influences fertility both independently and through a number of intermediate variables such as contraceptive use, breastfeeding, abstinence, warital status, proportion sarried, postpartum susceptibility and desired family size. The relationships are shown in Fig. 1 and will be examined in this study.

Figure 1

Conceptual Framework for the analysis of Abe at First Marriage and Fertility



1.7 hypethesis

The relationship in the framework subjects the following hypothesis:

- Women who use modern contraceptives are likely to have less number of children.
- Wohen who desire shall families are likely to have fewer children.
- 3. Age at marriage is inversely related to fertility.

1. Leticucley

1.1.1 June of Data

The study is based on data from the KDHS that was conducted between December 1980 and May 1909. The survey was designed to collect data on fertility, family planning and maternal and child health.

The KDHS was a mational survey in coverage except for the exclusion of North Eastern Province and four Northern districts which together account for only 5 per cent of Kenya's population. The sample was designed to produce completed interviews with 7,500 women aged 15-49 and a sub-sample of 1000 husbands of these women.

Three questionnaires were utilised, the household questionnaire, woman's questionnaire and husband's questionnaire. Eligible women were women 15-49 years who had spent the night before the interview in the selected households. Eligible husbands were defined as those who spent the night before the interview in the selected households and whose wives were successfully interviewed. 7,150 cligible women and 1,116 eligible husbands were successfully interviewed with a high response rate.

The survey was intended to serve as a source of population and health data for policy weekers and for the research community. One of the main objectives of the survey was to measure changes in fertility and contraceptive prevalence and at the same time study the factors which affect these changes such as marriage patterns, urban/rural residence, availability of contraceptives, breastfeeding habits and other

socio-economic factors.

Marital status was recorded as at the time of the survey. There were never married, currently married (which included "living together" and "married"). A third category was "ever married" which included widowed, divorced or no longer living together.

Maternity histories were recorded from which retrospective and current fertility were obtained.

1.4.2 Ligitations of Lata

The survey did not cover North Eastern Province and four Northern districts which together account for about 5 per cent of the total population. This is because they were not included in the National sample survey and Evaluation Programme (NASSEP) master sample which was maintained by the Central Bureau of Statistics (CBS).

Age misstatement is a common problem with African data and the KDHS is no exception. This is because in Africa people do not attach much importance to ages at which events take place. This results in age heaping at some preferred ages or ending digits. Although in the KDHS consensual unions were included as marriages, there is a likelihood of omitting such non-formal unions especially if they took place before a marriage was formalised, which would lead to overstatement of age at first marriage.

Cumulative fertility is subject to errors of omission of births especially if a death occured early in life, grown up children who are living elsewhere may be omitted, memory recall

problem. Errors of addition are likely through inclusion of still births and children of relatives.

Some independent variables are recorded as at the time of the survey such as highest educational level attained which could have been attained after marriage and therefore do not influence age at first marriage and consequently achieved fertility.

1.8.3 Method of Analysis

Various methods will be used in the analysis. Such methods include cross-tabulations of social and economic characteristics such as education, religion, ethnicity, duration of marriage and place of residence.

The contribution of age at first warriage to variation in fertility will be investigated by a regression analysis in which the relative contributions of some other variables will also be seen, for example education, religion, ethnicity, place of residence, marital status, age at first warriage, regions of residence, breastfeeding, abstinence, desired family size and contraceptive use.

 $Y_1 = B_0 + B_1 X_{12} + B_2 X_{22} + \dots + B_n X_n 2^{+E_1}$ where Y_1 is the dependent variable

B is a constant

B₂ is a coefficient of regression

X_{n2} is independent variable.

The unit of analysis will be the individual women. The measure of fertility will be the mean children ever born.

BACKGROUND CHARACTERISTICS OF THE RESPONDENTS

Behaviour of an individual is very much determined by his/her characteristics and the general characteristics of the environment around him or her. This section will examine some selected socio-economic characteristics of the respondents. Distribution of the respondents by these socio-economic characteristics is expected to throw some light on the relationship between age at first marriage and fertility to be examined in subsequent analysis.

2.1 Distribution of Respondents by Age

Age is a very important demographic variable. Various biological changes take place as one matures in age and these have various demographic implication. For instance age at menarche could influence use at first birth, age at marriage and even socially, one is recognized as an adult and can participate in adult activities like dances or social gatherings. Social relations are greatly affected by population entering at each age; for instance age will influence population that will enrol to enter school, marriage, labour force, retirement and many others.

| Number of We | ouen Percentage | Cumaulative Percentage |
|--------------|---|--|
| 1497 | 20.0 | 20.0 |
| 1321 | 18.5 | 20.9 39 4 |
| 1334 | 18.7 | 58.1 |
| 981 | 13.7 | 71.8 |
| 898 | 12.6 | 84.4 |
| 674 | 9.4 | 93.8 |
| 443 | 6.2 | 100.0 |
| | Number of W 1497 1321 1334 981 898 674 445 | Number of Women Percentage 1497 20.9 1321 18.5 1334 18.7 981 13.7 898 12.6 674 9.4 445 6.2 |

Table 2.1 Percentage Distribution of Respondents by Age

Source: Couputed from KDHS Data File.

It is clear from Table 2.1 that wore than half of the respondents were under the age of 30 years. This group contributed 58 per cent of the sampled wowen. It is also clear that there is a decreasing trend in proportion with age, with the largest proportion in the lowest age group 15-19 years. This is in line with the general distribution of the population in the country where it was observed in the 1979 census that the population pyramid is broad based. The proportion under 35 years is 72 per cent and this has serious fertility implications considering that highest fertility in a woman's reproductive years is in age 15-34 years.

2.2.1 Type of Place of Resi. ince

The environment in which one lives has an important role to play in influencing behaviour of an individual.

| Perc | entage Distribution o | f Respondents Ly T | ype of Place of | | | |
|------------------|-----------------------|--------------------|-----------------|--|--|--|
| Residence by Ase | | | | | | |
| Aga | Urlan | Rural | Total | | | |
| 15-19 | 22.3 | 20.6 | 20.9 | | | |
| 20-24 | 26.3 | 16.8 | 18.5 | | | |
| 25-29 | 20.9 | 18.2 | 18.7 | | | |
| 30-34 | 13.8 | 13.7 | 13.7 | | | |
| 35-39 | 8.7 | 13.4 | 12.6 | | | |
| 40-44 | 5.0 | 10.3 | 9.4 | | | |
| 45-49 | 3.0 | 6.9 | 6.2 | | | |
| Total | 100.0 | 100.0 | 100.0 | | | |
| N | 1236 | 5914 | 7150 | | | |
| X | 17.6 | 82.7 | 100.0 | | | |

Talle 2.2

Source: Computed from KDHS Data File.

Table 2.3 clearly shows that Kenya is predominantly rural with 83 per cent of the sampled women from rural areas. Of the women found in the urban areas, the proportions under $a_{c}e$ 35 years are higher than those in rural areas while after $a_{b}e$ 35 years the proportions are higher in the rural areas which means that 'urban population is predominated by young people concentrated at ages below 35 years. The highest proportion is at ages 20-24 years which can be explained by rural urban migration. This is the age when most young people finish secondary school and move to urban areas for economic reasons. This also explains why the proportion is 15-19 years is slightly lower; it is likely that many of the women in this age group are still in school outside the urban areas.

Among those in rural areas there is a gradual decrease in proportion. It is also clear that above age 30 years the proportions are higher in rural areas. This means that older women tend to live in the rural areas.

2.2.2 Childhoud Place of Residence

The environment in which one grows up greatly determines one's tehaviour in life and it is felt that childhood residence is one of the environmental factors which influence ones tehaviour.

| Type of Place | Child | | |
|---------------|-------|-------------|-------|
| of Residence | Urban | Countryside | Total |
| Urlan | 43.5 | 13.1 | 17.3 |
| Rural | 56.5 | 86.9 | 82.7 |
| Total | 100.0 | 100.0 | 100.0 |
| N | 978 | 6168 | 7140 |
| x | 13.7 | 86.3 | 100.0 |

Table 2.3 <u>Percentage Distribution of Respondents by Childhood Place</u> of Residence by Type of Place of Residence

Source: Computed from KDHS Data File.

It is clear from Table 2.3 that majority of the sampled women (86 per cent) had lived in the countryside in their childhood. However, it is observed that of those who had urban childhood residence, a larger proportion is living in the rural areas which could be explained by the fact that urban areas have better hospitals and women from rural areas tend to move to the urban areas for delivery and then move back to their usual rural residence. Such children born in urban hospitals are likely to be errorneously reported as having had urban childhood residence. Of those who had countryside childhood residence majority (83 per cent) were still living in the rural areas. Only a small proportion had migrated to the urban areas. This is also because the sample was dominated by rural women.

2.3 Age Characteristics of Regions

Kenya is divided into 8 provinces administratively and all except North-Eastern were covered in the KDHS. The different regimes vary in terms of economic activities which are influenced by climate, altitude, soil and physical features.

| | | R | EGIO | ON OF | RES | | | |
|-------|---------|---------|-------|---------|--------|----------------|---------|-------|
| Age | Nairoli | Central | Ceast | Eastern | Nyanza | kift Valley | Western | lutal |
| 15-19 | 22.1 | 22.0 | 16.8 | 21.8 | 20.5 | 26.1 | 21.3 | |
| 21-24 | 26.8 | 19.3 | 16.2 | 16.2 | 17.0 | 17.0 | 19.1 | |
| 25-29 | 26.6 | 16.1 | 17.6 | 16.5 | 17.5 | 26.6 | 17.0 | |
| 30-34 | 13.5 | 11.8 | 16.4 | 11.5 | 15.4 | 13.7 | 14.3 | |
| 35-39 | 6.5 | 11.9 | 16.0 | 13.5 | 13.4 | 12.9 | 10.5 | |
| 40-44 | 5.6 | 5.1 | 7.5 | 16.9 | 5.2 | 5.7 | 10.7 | |
| 45-45 | 2.6 | 7.2 | 5.5 | 7.0 | 6.2 | 6.6 | 6.6 | |
| Total | 100.0 | 166.6 | 106.6 | 166.6 | 166.6 | 100.0 | 100.0 | |
| N | 554 | 1120 | 455 | 1269 | 1212 | 1519 | 571 | 7150 |
| X | 7.7 | 15.7 | 7.0 | 17.0 | 17.0 | 21.2 | 13.0 | |

Talle 2.4 Fercentage Distribution of Respondents by Region of Residence by Age

Scurce: Computed tron KDHS Data File.

Table 2.4 shows that there is not much variation in the age structure among the regions. However, Nairoli has the highest proportion in ages below 35 years (3 per cent) while all the other regions had proportions below 75 per cent. This is possibly because Nairoli being the capital city is purely urban and as earlier observed, urban residents are predominantly young people below age 35 years. Table 2.4 also shows that there is an increase in proportion ages 25-25 years in the kift Valley province, breaking the decreasing trend with increase in age. This may reflect a particular pattern of age mis-reporting rather than a genuine divergence.

Naircli province also has the lowest proportion aged 40-45 years which reflects effect of return migrants (urlan-rural migration) on retirement. The same KDHS data also show that apart from Mairoli which is purely urlan and Coast province which has a large proportion urlan (38 per cent), the rest of the regions had very low proportions that were urlan with Nyanza (15.2 per cent) the others had less than 10 per cent. Eastern province has the lowest urlan proportion (0.8 per cent). This just supports the earlier observation that Kenya is predominantly rural.

It is also claserved in the KDHS that urlan women have a higher contraceptive use than rural women. Among regions, Eastern and Central have highest level of contraceptive use.

2.4 Ethnicity

Kenya is a country of diverse ethnic group. In the KDHS classification, shall ethnic groups that were closely related were grouped together and 10 categories were formed. Different ethnic groups have unique characteristics, traditions, norms, values beliefs and practices.

| Ethnicity N | unter of Women | Parcent | Cumulative Percent |
|----------------|------------------|---------|--------------------|
| Kaloniin | 607 | 8 5 | н 5 |
| Kaula | 918 | 12.8 | 21.3 |
| Kikuyu | 1706 | 23.9 | 45.2 |
| Kisii | 405 | 5.7 | 50.9 |
| Luhya | 1217 | 17.0 | 67.9 |
| Luo | 1039 | 14.5 | 82.4 |
| Meru/Entu | 463 | 6.5 | 88.9 |
| Mijikenda/Swah | ili 307 | 4.3 | 93.2 |
| Somali | 10 | 0.1 | 93.3 |
| Other | 478 | 6.7 | 100.0 |
| Total | 7150 | 100.0 | |
| Source: Comut | od from KDHS Dat | p Fils | |

Taile 2.5 Percentage Distribution of Respondents by Ethnic Groups

It is clear from Table 2.5 that Kikuyus form majority of the respondent (24 per cent) while the Schali form the smallest group with a proportion of 0.1 per cent. The sample has four major ethnic groups, Kikuyu, Luhya, Lucs and Kambas,

It was also discrived in the data, that there is a close link between regions and ethnicity, where each region is found to be predominanted by one ethnic group.

| I Loll I am | | REG | ION | OFKE | SIDI | ENCE | | |
|-------------|---------|---------|-------|---------|--------|--------|---------|--------|
| | | | | | | kift | | |
| Ethnicity | Nairoli | Central | Clast | Lastern | Nyanza | Valley | Western | Tetal |
| Kalenji | 0.5 | 6.3 | 0.4 | 0.1 | 0.1 | 36.4 | 1.5 | |
| Kaula | 12.3 | 3.0 | 3.5 | 62.6 | 6.2 | 6.6 | 0.1 | |
| Kikuyu | 31.2 | 92.3 | 2.8 | 2.4 | 1.1 | 26.7 | 0.6 | |
| Kisii | 1.5 | 1.1 | 0.3 | - | 26.1 | 2.4 | 6.4 | |
| Luhya | 16.4 | 6.9 | 3.4 | - | 3.6 | 16.0 | 82.5 | |
| Luo | 26.2 | 1.4 | 7.5 | - | 62.8 | 2.2 | 4.4 | |
| Meru/Eulu | 1.2 | 0.4 | 0.0 | 35.1 | - | 0.3 | | |
| Mijikenda/ | | - | | | | | | |
| Swahili | 1.2 | | 55.2 | 6.1 | 0.3 | 6.3 | | |
| Schali | 6.6 | | 6.3 | 6.1 | 6.1 | 0.5 | | |
| Other | 7.6 | 0.7 | 22.0 | 6.3 | 4.0 | 16.9 | 10.6 | |
| Tctal | 166.6 | 106.6 | 100.0 | 166.6 | 166.6 | 106.6 | 100.0 | |
| N | 554 | 1120 | 458 | 1209 | 121 | 1515 | 571 | 7150 |
| % | 7.7 | 15.7 | 7.0 | 17.8 | 17.0 | 21.2 | 13.0 | 106.60 |

Table 2.6 Percentage Distribution of Respondents by Ethnicity by keylon of Residence

Source: Computed from KDHS Data File.

Table 2.6 clearly reflects the close link between region and ethnicity. Each region has one ethnic group predominanting except in Nairobi where there are significant proportions of several ethnic groups. Kikuyus form the largest proportion (31 per cent), Luo (26 per cent) Luhya (16 per cent) and Kamba (12 per cent). The Central region is dominated by the Kikuyus (92 per cent), Coast by the Mijikendas (59 per cent), Eastern by Kambas (62 per cent) with a large Meru/Esbu component (35 per cent) Nyanza by the Lues (63 per cent) with a large Kisii component (28 per cent), Kift Valley by the Kalenjins (38 per cent) and Kikuyu (29 per cent) with a significant buhya minority (16 per cent) and Western region by buhya (63 per cent).

Region of residence is likely to determine the inhalitants through what it offers in terms of sucio-economic activities. The Luc for instance, whose main activity is fishing, are likely to inhalit lake shore areas like western Kenya while the Kikuyus who are mainly farmers will tend to inhalit areas with rich agricultural soils like the Eastern highlands of Central Frovince.

2.6 Marital Status

Marital status is an important demographic variable in determining fertility. In a country like Kenya which is typical of most African countries, marriage is almost universal and is used to sanction reproductive performance. Proportions currently married will therefore have significant influence on fertility with all other things remaining the same.

| | | 1 | 1 A R I T | AL ST | ATUS | | |
|-------|---------|---------|-----------|----------|-----------|-------|--|
| | Never | | | | | | |
| Age . | Married | Harried | Widewed | Divorced | Separatel | Tutal | |
| 15-19 | 64.2 | 5.8 | U.3 | 7.6 | 6.7 | | |
| 20-24 | 22.6 | 17.4 | 4.4 | 16.0 | 29.0 | | |
| 25-29 | 7.7 | 23.2 | 10.3 | 21.8 | 17.0 | | |
| 36-34 | 2.9 | 17.5 | 10.3 | 23.9 | 21.1 | | |
| 35-39 | 1.5 | 15.4 | 21.5 | 15.3 | 12.0 | | |
| 46-44 | 0.5 | 12.1 | 28.2 | 9.1 | 11.6 | | |
| 45-49 | 0.6 | 7.7 | 25.0 | 6.3 | 2.5 | | |
| Total | 100.0 | 100.0 | 100.0 | 160.0 | 1.1.1 | | |
| N | 1861 | 4768 | 196 | 221 | 104 | 7148 | |
| X | 26.0 | 66.7 | 2.7 | 3.1 | 1.5 | 100.0 | |

Table 2.7 Percentage Distribution of Respondents by Current Marital Status by A.e

Source: Computed from KDHS Data File.

From Table 2.7, it is clear that majority of the sampled women were currently married (67 per cent) in the KDHS the married category included those who were $livin_{ij}$ together. A large component of the women were never married (26 per cent).

Among the never-married group, there is a decreasing trend with increase age with 37 per cent never-married in the ages under 25 years. These are likely to be the wamen who are still in school.

Among the parried category, the lowest proportion is in age 15-19 years and highest in age 25-29 years. However, it is clear that those currently parried concentrated in the age range 20-39 years. This has serious fertility implications in that this is the age range within which most childlearing cocurs.

Dissolution of marriages is very low in Kenya with only 7.3 per cent either widowed, divorced or separated. The widowed category increases with ape as expected. Divorced and
separate' decrease with are which means that older people's marriages tend to be more stable and divorce and separation are characteristic of young people.

2.6 Type of Marital Union

In the survey, the respondents were asked how many other wives their huslands had. Those whose huslands had no other, were grouped as monogamous and for purposes of this study all those who reported one or more are grouped as polygynous marriages.

| a La Ten | and all stores | TYPEOFI | ARITA | LU | NION |
|-------------|----------------|------------|-------|------|------|
| Ethnicity | Monceasus | Polydaquus | Total | N | |
| Kalenjin | 81.0 | 19.0 | 100.0 | 43 | |
| Kauta | 81.4 | 18.6 | 160.6 | 584 | |
| Kikuyu | 92.1 | 7.9 | 100.0 | 992 | |
| Kisii | 74.1 | 25.9 | Level | 255 | |
| Luhya | 75,5 | 24.5 | 100.0 | 879 | |
| Luo | 64.1 | 35.9 | 100.0 | 705 | |
| Meru/Enlu | 77.6 | 22.4 | Luu.L | 275 | |
| Mijiken:la/ | | | | | |
| Swahili | 57.2 | 42.8 | 100.0 | 228 | |
| Sonali | 92.3 | 1.7 | 100.0 | 8 | |
| 0ther | 60.4 | 39.6 | 100.0 | 325 | |
| Total | 3643 | 1114 | | 4767 | |
| 2 | 76.6 | 23.4 | 100.0 | | |

Talle 2.8 Percentage Distribution of Respondents by Type of Marital Union by Ethnicity

Source: Computed from KDHS Data File.

Table 2.8 shows clearly, that in Kenya marriages are mainly monogamous (77 per cent). However, there are variations in the level of marriage types among the various ethnic groups with Kikuyus having the highest proportion of monogamous narriages and the Mijikendas having the highest proportion of polygynous marriages. The Lucs and the other categories also have a large component of polygynous marriages.

The same data shows that Central province had the highest proportion of monogamous marriages (92 per cent) which could le lecause it is predominated by the Kikuyus, while Nyanza and Coast region have highest proportions of polygynous marriages (37 per cent and 34 per cent respectively). These areas are predominated by Luhyas and Mijikendas respectively. It is also claerve! in the same KDHS data that polygyny is common among older than younger women, which may reflect a trend away from this traditional practice. It is also clearved from the same table 2.3 of KDHS that polygyny is coupon in the rural areas than in urlan areas. Considerable variation in poly yny is also ofserved according to age of woman. In Nyanza province, 29 per cent of women aged 15-19 years per cent are in polygynous union while only 4 per cent of the same cohort women in Rift Valley. In Coast province, of the women age 40-44 years, 54 per cent are in polygynuous unions while they form only lo per cent in Mairoli.

Monogamous marriages are known to have higher fertility than polygynous marriages and this distribution is likely to influence fertility in Kenya if all other things are held constant. It was however observed in the KDHS² that Eastern and Central province have the highest level of current

1. Kenya, DHS Talle 2.3 p. 12.

2. Itid P. 36.

contraceptive use (4.3 per cent) followed by Nairoli (34 per cent), Rift Valley 30 per cent. These are the areas dominated by Kamba, Kikuyu, Kalenjin all of who are highly monogamous. On the other hand, how contraceptive use is observed in regions dominated by ethnic groups that have a relative high prevalence of polygyny. Coast province had 18 per cent level of current contraceptive use, Nyanza and Western had 14 per cent. However, considering that the general level of contraceptive use in the whole sample is low at 27 per cent, then, it may have only a slight effect on fertility.

2.7 Education

Education is an injurtant social variable which through expansion of the knowledge horizon influences behaviour. Kenya has made tremendous progress in education since independence especially in female education. In the KFS¹ it was observed that the percentage of females attending primary education increased from 34 per cent in 1963 to 47 per cent in 1977, while those in secondary increased from 32 per cent to 36 per cent in the respective years. It is also observed in a comparison table in KDHS² table 1.2 that there is a strong increase in the education attainment of women over time. The proportion of women with 5 to 8 years of education is higher in

1. Kenya Op.cit. P. 16-17.

2. Kenya 0..cit. p. 5-7.

1989 (43 per cent) than in 1984 (32 per cent) and 1977/76 (27 per cent). The data also show that wouldn in the urlan greas are considerally more educated than rural wouldn.

| | HIC | HRCT | EDUCITION | IEVET |
|-------|-------|---------|---------------|-------|
| Age | None | Privary | y Secondary + | Total |
| 15-19 | 3.0 | 28.4 | 22.0 | |
| 20-24 | 6.3 | 19.1 | 31.0 | |
| 25-29 | 13.5 | 18.4 | 25.7 | |
| 30-34 | 26.1 | 11.5 | 11.7 | |
| 35-39 | 21.3 | 11.0 | 6.0 | |
| 40-44 | 18.9 | 7.5 | 2.1 | |
| 45-49 | 16.0 | 3.8 | 7 | |
| Total | 109.0 | 100.0 | 100.0 | |
| H | 1797 | 3887 | 1456 | 7141 |
| * | 25.2 | 54.4 | 20.4 | 16.4 |

Table 2.9 <u>Percentage Distribution of Respondents by Education</u> Current by A_ce,

Source: Computed from KDHS Data File.

Table 2.9 shows that there is a decreasing trend in proportion with age. Of the uneducated women only 9 per cent were below 25 years compared to 35 per cent in those above 40 years. More than half of the sampled women (54 per cent) had primary education while only 20 per cent had secondary or higher education. Those with primary or secondary education are mainly in the ages below 30 years. This shows that in Kenya female education only became effective recently after independence.

Auong the regions, the data shows that Nairoli has the sumllest propertion of uneducatel wemen (9 per cent) while Coast Pr vince had 47 per cent and 13 per cent in Central province. The KDHS data also shows that educational achievement of women is highest in Nairoli while Central province shows the highest among all other provinces, with little variation among the other provinces.

2.8 Religion

Religious faith has been clearved to influence people's attitude towards certain values and beliefs in life. For instance, some religious condemn some traditional practices like polygyny while others allow it which greatly influences behaviour. In the KDHS, religion was classified into five categories; Catholic, Protestant, Muslin, other and no religion.

| Religion | Number of Women | Percent | Cumulative Percent |
|-------------|-----------------|---------|--------------------|
| Catho 14 | 2/85 | 31. 7 | 34 7 |
| CBEROLIC | 2400 | J4 . / | 34.7 |
| Protestant | 410/ | 57.5 | 92.3 |
| Muslin | 253 | 3.5 | 95.8 |
| Other | 115 | 1.6 | 97.4 |
| No religion | 11 | 2.6 | 100.0 |
| Total | 7150 | 100.0 | |

Taile 2.10 Percentage Distribution of Respondents by Religion

Source: Cuputed from KDHS Data File.

Table 2.10 clearly shows that Kenya is predominantly christian (52 per cent). The christians were prouped into Catholics and Protestants (non Roman Catholics). The counitment to ones religious faith is likely to influence one's lehaviour. For example the Catholic faith prohibits polypany and use of contraceptives while protestants allow use of contraceptives; huslids allow polygyny while christians prohibit it. Given the above distribution, it is clear why Kenya is also highly wonegamous.

The KDhS also shows that Muslius and the "no religion" category had the highest proportion with no education; (46 per cent and 81 per cent respectively) while Protestants has the highest proportion with secondary or higher education.

The Luslius were also found to have a large proportion in the urlan area 33 per cent simply because they are predeminantly found in the Coast Province which is largely urlan.

In terms of contraceptive use the data shows that Protestants had the highest (41 per cent) while those with no religion had lowest (28 per cent).

2.9 Work Status Lefore Marriage

In the KDHS, wellen were asked whether they worked before Garriage. Here, work wainly refers to wage employment. To secure reasonable wage employment one needs to acquire skills through education. Proportion educated will therefore very much determine work status. Job opportunities is another factor that will determine whether one works.

| | PLACE | OF RESIDENCE | TO | TAL |
|------------|-------|--------------|------|-------|
| Occupation | Urban | Rural | N | X |
| No | 70.4 | 78.9 | 4074 | 77.5 |
| Yes | 29.6 | 21.1 | 1101 | 22.5 |
| Total | 100.0 | 100.0 | - | - |
| N | 853 | 4402 | 5255 | - |
| X | 16.2 | 83.8 | - | 106.0 |

| | | latie | 2.11 | | | |
|------------|------------|--------|------------|------|--------|--------|
| Percentage | Distributi | on of | Respondent | s ty | Work | Statue |
| lefore | Marriage 1 | V Type | of Place | of R | esider | ice |

Source: Computed from KDHS Data File.

It is clear from Table 2.11 that majority of the women sampled had not worked before marriage (78 per cent). Amonst the urban residents 30 per cent had worked before marriage compared to 21 per cent adong the rural residents. The low propertion of those who had worked before warriage can be explained by low percentage of women who had secondary or higher education. Majority of the women had only primary education which is not enough to secure wage employment. This, coupled with the fact that majority of the women were from rural areas where wage employment is very scarce, explains the low proportion of these who worked before marriage. In the urlan areas there are likely to be more job opportunities. This, coupled with the fact that these with higher education are likely to come from urlan areas indicates that more urlan women were likely to have worked lefore marriage.

The KDHS also shows that along the ethnic groups, Kikuyu contributed the largest proportion of those who had worked before marriage (27 per cent) while Somalis and the Hijikendas had the lowest (0.1 per cent and 2.3 per cent respectively). It is also observed from the data that of those who had worked leftre marriage Rift Valley had the highest contribution and lowest was from the Coast at 5 per cent. This can be explained by the fact that Coast is dominated by Muslims who have been observed earlier to have relatively low education and high prevalence of p bygyny.

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Sumary

This chapter has attempted to show the characteristics of the sampled women. They were young (more than half were under 30 years), mainly from the rural areas and had rural childhood residence. This age category comprise of women at their most fertile period and coupled with their rural environment are likely to have high fertility. Majority were currently parried had low education attainment with 54 per cent having only primary education. It is also placerved in the KDHS that despite the high level of contrace, tive knowledge the level of current use is very low at 27 per cent which is wainly by the arlanites who are few, very few women had worked lefore varriage which c ull be explained by the low education level of the worken and lack of job oppetunities in the rural areas where majority of them are located. Lack of occupation after school leaves the woman with little alternative but to follow the tradition custous which favour early marriage and childbearing.

AGE AT FIRST MARRIAGE AND ITS SOCIO-ECONOMIC CORRELATES

Although menarche inlicates in most cases that a mirl is about to become able to bear children, the start of actual childbearing depends on subsequent exposure to sexual Having a sexual partner is approximated by intercourse. marriage in most societies, as it is within marriage that most sexual intercourse occurs and many religions forlid premarital sex. Age at first marriage, may therefore le taken to indicate the beginning of exposure to sexual interc urse. Marriage is still an important institution in Kenya used to regulate and sonction the cohalitation of couples and their subsequent fertility performance. The existence of different cultures has brought about various types of Larriages; customary, religious, civil , polygamous and monogamous marriages. Different culture groups will lay hore emphasis on various aspects of carriages and in mat cases the marriage wes through many defined states lefore it is fully formalised which could take a very lon, time. This makes it difficult to determine precisely when marriage actually legins.

In some cultures like amon, the Akaula society of Kenya, pre-marital sex was a must before marriage. This means that in such a cases, age at first marriage is not synonymous with first exposure to risk of childbearing. A live birth could occur before marriage if no preventive measures are taken. Page¹ in his analysis on the WFS data applied to Kenya claserved that in many areas of Tropical Africa, a couple may start having sexual relations several months before celebrating a formal marriage ceremony or starting to live together.

Data on age at first warriage is therefore likely to suffer from errors due to prolleas of warriage dating. However, age at first warriage still rewains an important if incomplete determinant of the average length of time a woman is exposed to the risk of childlearing while age at first lirth determines the beginning of childlearing.

3.1 Age

Age, as was earlier mentioned, is important in determining lehaviour like entry into marriage, onset of child learing and termination of childlearing.

| | | FI | rst Marr | la يظ Ly | Curren | t Aja | | | | | |
|-----------------------------|-------------|-------|----------|----------|--------|-------|------|----------|--|--|--|
| Current AGEATFIRST MARRIAGE | | | | | | | | | | | |
| <u>Age</u> | (15 | 15-17 | 16-19 | 20-24 | 25+ | Total | N | Marriaje | | | |
| 15-19 | 17.3 | 59.1 | 23.6 | - | - | 100.0 | 302 | | | | |
| 20-24 | 8.2 | 37.0 | 29.9 | 24.1 | w*0 | 100.0 | 901 | 17.7 | | | |
| 25-29 | 17.3 | 31.4 | 24.3 | 22,3 | 4.7 | 100.6 | 1191 | 17.7 | | | |
| 36-34 | 24.2 | 29.2 | 18.0 | 23.4 | 5.1 | 106.0 | 923 | 17.3 | | | |
| 35-39 | 20.6 | 32.8 | 20.2 | 20.6 | 5.8 | 100.0 | 169 | 17.5 | | | |
| 40-44 | 24.0 | 32.4 | 19.0 | 18.8 | 5.0 | 100.0 | 664 | 17.1 | | | |
| 45-49 | 17.8 | 28.4 | 21.3 | 23.4 | 9.1 | 100.0 | 434 | 18.3 | | | |
| Total | 13.4 | 33.4 | 22.6 | 20.9 | 4.3 | 100.0 | | 17.5 | | | |
| N | 973 | 1737 | 1197 | 1166 | 226 | | 5269 | - | | | |

Table 3.1 Percentage Distribution of Respondents by Age at First Marriage by Current Age

Source: Computed from KDHS Data File.

 Page, H.J., "The Proximate Determinants of Fertility and their Effect on Fertility Patterns: an Illustrative Analysis Applied to Kenya" Scientific Report No. 71, Dec. 1954.

Table 3.1 shows that marriage is early in Kenya with over half (52 per cent) of the ever married women, marrying Lefore the letal (ate 10 years according to the Kenya marriate Act). Over three quarters of the women were first married lefore ace 20 years and over 35 per cent lefore abe 25 years showing, that warriage is early and nearly universal in Kenya. The wean age at first warriage using simple arithmetic mean is 17.5 years. Nganga² using a more sophisticated method of life table tribean using KDHS data, observed that the bean a_{ee} at barriage 18.5 years. However, this is close to the estimate 15 according, to the Kenya fertility survey at 12.4 years. This is low compared to Ghana's mean age at marriage whose trimean according the the Ghana Fertility Survey was 19.3 years and according the the Ghana Demographic and Health Survey it was 20.2 years. It is however, clear true table 3.1, that age at first carriage tends to rise with decreasing age with a rise from 17.1 years for the cohort ages 40-44 years to 17.7 years for the cohort aged 20-24 years. This is possibly because wany of the young women are staying longer in the school system and therefore delaying warriage. This is wade clear by the concentration of the proportions of the never marries in the ales lelow 20 years.

2. Nganga Kezina W., Age at First Lirth and Fertility (unpublished) M.A. Thesis, KIPS University of Ghana, 1991.

^{1.} Maina Rose, Muchai, V.W., GHDS S.BO. "Law and the Status of Woman in Kenya" in Law and the Status of Women, and International Symposium, United Nations, Columbia Human Rights Law Review, 1977, U.S., Vol. 5; No. 1.

The mean age at first marriage for the cohorts in the ages 15-19 years is excluded because it is likely to give unrepresentative results, since most of the the women are likely to be still in school and therefore unmarried. The age group 45-49 years was earlier claserved to be possibly affected by age misreporting errors and problem of dating of marriage especially because most of these women, had no education.

3.2.1 Place of Residence

Place of residence is likely to influence ones tehaviour towards marriage. Urbanization erodes traditional customs and through its exposure to new ileas people change attitudes and values.

| Place of | A G | E A T | FIRS | 6 T M A | R R I | A G E | Ы | Hean Age at First |
|------------|-------------|-------|-------|---------|-------|-------|------|----------------------|
| Restlience | K 15 | 13 1/ | 10 17 | 20/ 24 | 251 | Ittal | | futtiage |
| Urlan | 14.0 | 30.4 | 23.1 | 25.2 | 5.2 | 100.0 | 858 | 18.2 |
| Rural | 15.2 | 34.4 | 22.5 | 19.9 | 3.9 | 100.0 | 4431 | 17.4 |
| Total | 18.4 | 33.4 | 22.6 | 20.9 | 4.3 | 100.0 | | 17.5 |

Table 3.2 Percentage Distribution of Respondents by Age at First Marriage by Place of Residence

Source: Computed from KDHS Data File.

Table 3.2 clearly shows that the sampled women are predominantly rural. It is clear that marriage is earlier in rural areas than in urban areas. Over 50 per cent rural women first marry under any 13 years while in urban areas it is only 44 per cent. By any 20 years, over 75 per cent of the rural women are married while in the urban areas it is only 67 per cent. The propertions marrying below age 20 years is higher in rural than in urban. The mean age at first marriage is higher for urban women (19 years) compared to the mean for rural women (17.4 years).

The above diservations can be explained by the econduic differences in urban and rural areas. Urban wowen are likely to remain longer in the school system, have modern sector employment preoccupations and hence face problems of housing and acquisitions of basic property before marriage, hence likely to delay marriage. Their rural counterparts are less educated, hold more to traditional values and are involved in traditional systems of production which favour early marriage.

3.2.2 Childhoud Place of Residence

Behaviour in early years of life is usually copied from the elder people and therefore lehaviour of the people where one was brought up during chilihood is likely to determine ones lehaviour in life.

| and the second | PHELIC | Le Ly | CHILINO | ou Plac | e or | Kesi Jence | 7.54 | | |
|------------------------------------|-------------------------------|-------|---------------|---------|------|---------------|------|---|--|
| Childhood Place of Residence | $\frac{AGE AT}{< 15 15 - 17}$ | | FIRS 10-19 | T M A | 25+ | IAGE Total | N | Mean A _c e at First Marria e | |
| | | | | | | 10631 | | 11022210/je | |
| City | 16.4 | 26.1 | 23.5 | 27.5 | 4.5 | 100.0 | 317 | 17.9 | |
| Town | 20.2 | 35.3 | 15.5 | 18.8 | 5.3 | 100.0 | 374 | 17.2 | |
| Countryside | 18.4 | 34.0 | 22.8 | 20.6 | 4.2 | 100.0 | 4597 | 17.5 | |
| Total | 18.4 | 33.4 | 22.6 | 23.9 | 4.3 | 100.0 | 5288 | 17.5 | |

Talle 3.3 Percentage Distribution of Respondents Ly Age at First

Source: Computed from KDHS Data File.

From table 3.3 it is clear that most of the women (67 per cent) hal countryside childhood residence. There is a tendency to marry later among women who had city childhood residence. City childhood residence thus appears to have some influence on the age at which a woman enters into marital union; while three quarters of those with rural or town childhood residence, were first married by age 20 years, only 60 per cent of those with city childhood were first married then.

The mean age at first carriage for those who had countryside childhood residence 17.5 years is the same as for entire population (17.5 years). This is because they form the largest proportion of the women (87 per cent), hence have a greater influence on the grand mean age at first carriage.

3.3 Region of Residence

| | | | | | | - | | _ |
|-------------|-------------------|----------------|--------------|--------------------|---------------------|------------------|------|----------------------------------|
| Region | <u>a G</u> <15 | E A T 15-17 | FIR 18-19 | <u>ST</u> 20-24 | <u>A R R</u> 25+ | I A G E Total | 11 | Mean Age at First harriage |
| Natrolf | 11.2 | 30.7 | 22.5 | 28.9 | 5.3 | 100.0 | 380 | 18.6 |
| Central | 10.4 | 25.1 | 28.4 | 30.0 | 6.1 | 1 | 741 | 18.6 |
| Coast | 30.7 | 35.0 | 17.2 | 14.7 | 2.3 | 1 | 398 | 16.3 |
| Eastern | 12.1 | 25.3 | 28.2 | 25.1 | 5.4 | 9100.0 | 894 | 18.5 |
| Nyanza | 27.0 | 40.8 | 16.8 | 12.6 | 2.8 | 100.0 | 978 | 16.4 |
| Rift Valley | 20.8 | 36.9 | 20.9 | 17.0 | 4.4 | ILU.U | 1133 | 17.3 |
| Western | 16.2 | 39.5 | 23.2 | 18.2 | 3.0 | 1 | 764 | 17.3 |
| Total | 13.4 | 33.4 | 22.6 | 20.9 | 4.3 | 1 | 5285 | 17.5 |

Table 3.4 Percenta e Distribution of Respondents by Age at First Marriage by Region

Source: Computed from KDHS Data File.

Table 3.4 clearly shows existing variations in age at entrance to marital unions among regions. Coast province exhibits the highest proportions (31 per cent) who are married lefore their 15th lirthday. While over 65 per cent are married before age 18 years in Coast and Nyanza provinces, the proportion is less than 60 per cent for all other regions. Proportions marrying at age 20 years and above are below 20 per cent for most regions except Nairoli, Central and Eastern provinces. By age 25 years, 95 per cent of the women are already married in all the regions. It is evident therefore that marriage is early generally in Kenya.

The mean age at first marriage for the regions seen to fit in three categories; Nairoli, Central and Eastern at alove 10.5 years Rift Valley and Western at 17-16 years while Coast and Western are below 17 years. The low mean in Western and Coast provinces could be explained by the fact that the two regions have many muslims who tend to have low age at marriage. The muslim religion allows polygynous unions which were earlier found to have low age at marriage. Western is highly rural while Coast though more urban is predominated by the Mijikenias who have low age at marriage and low education. Chill marriage common at the Coast is allowed by the muslim religion although sexual relations do not start until the girl is sexually dature. Such early reported marriages are likely to jull down the mean age at marriage for such regions. This is rather misleading because cohalitation starts much later

after marriage. According to the KDHS data, the level of education is higher in Nairoli, Central and Eastern provinces than in all other regions. As such women in these regions are likely to delay marriage. Nairoli, leing the capital city is also highly urlanized hence the experience of late marriages.

3.4 Ethnicity

| | | 1.1 | | a bad as | | A STATISTICS | | |
|-------------------|------------|----------------|--------------|---------------|--------------|------------------|------|----------------------------------|
| Ethnicity | A G <15 | E A T 15-17 | FIR 10-19 | ST M 20-24 | A R R 25+ | I A G E Total | И | Mean Age at First Marriage |
| K - 1 14 - | 2/ 1 | 26.5 | 11: / | 16.1 | | 1 | 151 | 17.0 |
| Kalenjin | 20.1 | 23*2 | 12.4 | 10.1 | 4.9 | Ton.o | 431 | 17.2 |
| Katula | 15.2 | 22.5 | 20.9 | 25.9 | 0.5 | luuiu | 655 | 15.4 |
| Kikuyu | 11.2 | 27.0 | 27.8 | 26.3 | 5.7 | 1.1.0 | 1130 | 10.4 |
| Kisii | 21.3 | 34.7 | 18.2 | 22.7 | 3.2 | 1 | 256 | 17.2 |
| Luhy ₂ | 17.1 | 36.9 | 22.5 | 10.3 | 3.2 | 1 | 964 | 17.3 |
| Luo | 27.1 | 44.1 | 17.6 | 8.7 | 2.4 | 1.0.0 | 652 | 16.2 |
| Meru/ELlu | 7.3 | 31.2 | 24.6 | 32.9 | 4.0 | 100.0 | 308 | 18.0 |
| Hijikenda | 38.9 | 30.8 | 15.7 | 13.1 | 1.5 | 100.0 | 254 | 15.7 |
| Schali | 18.1 | 56.6 | 11.0 | - | 14.2 | 100.0 | 9 | 17.5 |
| Other | 19.9 | 33.7 | 18.3 | 22.8 | 5.4 | 100.0 | 300 | 17.5 |
| Tutal | 18.4 | 33.4 | 22.6 | 20.9 | 4.3 | 1 | 5289 | 17.5 |

Talle 3.5 Fercentage Distribution of Respondents by Age at First Marriage by Ethnicity

Source: Computel from KDNS Data File.

Table 3.5 shows that as observed among regions, variations in age at first marriage exist within ethnic groups. Different ethnic groups have certain values and practices that influence age at first marriage. The Mijikendas have the highest proportion marrying before age 15 years (39 per cent) while the Meru/Enlu have the lowest (7.3 per cent). Most of the ethnic groups have most first marriages occuring at ages 15-17 years except Kamba and Kikuyu among whose most first marriages occur at ages 10-19 years and among Embu/Meru at 20-24 years. The mean age at first marriage for the regions ranges from 15.7 years among the Mijikendas to 16.6 years among the Meru/Enlu group. Locking at the means, one sees a close link letween ethnicity and region of residence. The Kikuyu, Kamta and the Enlu/Meru occupy the Central and Eastern regions which were observed previously to be characterised by relatively high age at first marriage. The Mijikendas are predominant at the Coast region which was found to experience low age at first marriage. Nairoli is heterogeneous in ethnicity, highly urbanized hence bound to experience late age at marriage. The other ethnic groups are distributed in the other regions that had mean age at marriage at around 17 years.

The Kikuyu, Kaula and Meru/Eulu are shown in the KDhS data to have relatively higher education level than other ethnic groups while the Mijikepuas have the lowest. The Mijikemaas are most likely affected by the early truncation of schooling to get married which is usually arranged by parents. This is a common practice among the Mijikemuas who are also highly muslic in affiliation.

3.5 Type of Marital Union

| - | | | | 1 | ?ir | ьt | Mai | ri | ab | el | y | Jn | Úŋ | | [Y] | e | -1 | | |
|-----------------------------|-----------|----|-----|---|----------|----|-----|-----|----|----------|-----|----|----|---|-----|----|-------|-------|----------|
| Type of Marital Union | <u>ki</u> | G | E | A | T | F | II | S | T | М | A | k | Ř | 1 | Δ | G | E | | Nean Ale |
| | | | 15 | 1 | 5- | 17 | 18 | 3-1 | 9 | 20 | -24 | 4 | 25 | + | 1 | ut | al | N | Marriage |
| Monce ancus Poly alicus | | 1: | 5.6 | | 34 33 | •2 | 24 | .7 | | 21 18 | •7 | | 3. | 7 | | 10 | 1. U. | 3643 | 17.7 |
| Total | | 18 | 3.0 | | 34 | .1 | 23 | .0 |) | 20. | .9 | | 4. | Ī | | I(| C.C | 4757 | 17.5 |

Talle 3.6 Percentage Distribution of Respondents by Age at First Marriage by Union Type

Source: Computed from KDHS Data Wile.

Table 3.6 shows that marriages in Kenya, are predominantly monogenous (77 per cent). This is possibly because the population is highly christian (92 per cent) which prohibits polygamous marriage. It is only the muslim law and customary law that allow polygamous marriages, which form a very small proportion of the population.

Within the two types of marriages there are some variations in age at first entrance into marital union. While over a quarter of the women in polygynous unions are married by age 15 years, only 16 per cent are married among those in monoganous unions. By age 20 years, 60 per cent of women in polygynous unions are already married, while larely 50 per cent are married among those in monogamous unions.

The mean age at first marriage is at a low level of 17 years for polygynous unions and 17.7 years for monogamous marriages. The large representativeness of the monogamous marriages influences the grand mean which is at 17.5 years (closer to the mean for monogamous unions than to that of polygamous unions).

The distribution of the women is such that of the women married under age 15 years, a much larger proportion is from those in polygynous unions (26 per cent). Only few marriages take place after 17 years for polygynuous unions and a steep decline in proportion is claserved from 34 per cent for those marrying at ages 15-17 years to only 17 per cent for those marrying at ages 18-19 years. The decline among those in teonogamous marriages is not as great, with a decline from 34 per cent in ages 15-17 years to 25 per cent in ages 16-19 years.

It is clear from the means that polygynous unions have an influence on age at first marriage, but their unrepresentativeness (only 23 per cent) makes their effect on the grand mean very minimal. Further evidence from the KDHS data files, show that monogamous marriages predominate in most ethnic groups with only the Mijikendas and Luos showing significant proportions of polygynuous unions. The two groups are mainly found at the Coast and Nyanza provinces respectively which are regions found earlier to be characterised by a low age at first marriage.

3.6 Education

Education, through knowledge expansion helps one to appreciate new things and wokes one more flexible to changes. One can adapt easily to new environment, culture and therefore education can very much influence one's behaviour in life.

| Pe | rcer | ntege Di | lstribu | ition of | Respon | dents | by Aze a | at Firs | t | | | | | | |
|-----------|----------|----------|---------|----------|----------|--------|----------|---------|----------------------|--|--|--|--|--|--|
| | | | Marri | age by H | Educatio | on Les | vel | | | | | | | | |
| | | AGE | A T | FIRS | TMA | RR | IAGE | | Mean Ale at First | | | | | | |
| Education | | <15 | 15-17 | 18-19 | 20-24 | 25+ | Total | N | Marriage | | | | | | |
| None | | 30.0 | 33.5 | 17.1 | 14.8 | 4.6 | 100.0 | 1701 | 16.0 | | | | | | |
| Primary | | 15.9 | 39.3 | 23.8 | 17.8 | 3.3 | 100.0 | 2710 | 17.4 | | | | | | |
| Secondary | + | 3.4 | 17.4 | 29.6 | 42.6 | 7.0 | 100.0 | 871 | 19.8 | | | | | | |
| Total | Read and | 18.4 | 33.8 | 22.6 | 20.9 | 4.3 | 100.0 | 5571 | 17.5 | | | | | | |

Table 3.7

Source: Computed from KDHS Data File.

Table 3.7 shows that age at first marriage is positively related to education. While mean age at first marriage is 16.0 years for the uneducated women it is 15.8 years for those with secondary or higher education. Marked variations in age at first marriage are observed among the different marriage cohorts. While 30 per cent of the uneducated women are married by age 15 years, only 3.4 per cent are, among the women with secondary or above education. However, primary education alone has little effect on age at first marriage and, while over 55 per cent of those with primary or no education, are married by age 18 years, the proportion is larely 20 per cent for those with secondary or above education. Table 3.7 also show that most marriages among those with secondary or higher education take place at ages 20-24 years while for those with less than secondary or higher education is necessary and acts as a pre-requisite for changing attitudes towards early marriage.

To achieve secondary or higher education one has to stay longer in the school system, which also lives one an opportunity to mature and learn more about life. With high educational level, one lecomes well equipped with skills necessary for wage employment and has letter chances for cureer development. Staying longer in school means postponing marriage since marriage is not commensurate with education particularly in Africa where marriage is meant for procreation. It is therefore clear even from the same table that those with secondary or higher education marry much later than the unelucated. While over &0 per cent of those with only primary elucation or are uneducated are already married by age 20 years, larely 50 per cent of those with secondary education are.

The KDHS data also shows that women with secondary or higher educational level tend to be young (under 35 years), are likely to live more in urban areas and generally from regions experiencing late marriage.

3.7 · Religion

In Kenya there is freedom of worship and therefore almost everybody belongs to a certain religious affiliation with only 3.4 per cent of the women reporting that they belonged to no religion. Religious affiliations, have their marriage laws that determine minimum legal age at first marriage. As such religion has a very important role to play determining age at first marriage. For any marriage to be recognized in Kenya it has to have passed through either religious, customary or civil law.

| | First Marriage by Religion | | | | | | | | |
|-------------|----------------------------|--------------|---------------|----------------|-------------------|---------------|------|----------------------------------|--|
| Religion | <u>AGE</u> <15 | A T 15-17 | FIRS 18-19 | T M A 20-24 | <u>R R</u> 25+ | IAGE Total | N | Mean Acc at First Marriage | |
| | 6.1 | | | 1.1 | | | 17. | | |
| Catholic | 19.0 | 31.5 | 23.0 | 22.0 | 4.4 | 100.0 | 1836 | 17.5 | |
| Protestant | 16.7 | 35.2 | 23.1 | 20.7 | 4.3 | 100.0 | 2994 | 17.6 | |
| Huslin | 32.3 | 29.6 | 19.2 | 15.8 | 3.0 | 100.0 | 197 | 16.0 | |
| Other | 16.9 | 31.1 | 23.2 | 23.1 | 5.8 | 100.0 | 88 | 10.5 | |
| No Religion | 26.8 | 41.8 | 14.1 | 15.4 | 1.8 | 100.0 | 165 | 16.4 | |
| Total | 18.4 | 33.8 | 22.6 | 20.9 | 4.3 | 100.0 | 5280 | 17.5 | |

Table 3.8Percentage Distribution of Respondents by Age atFirst Marriage by Religion

Source: Computed from KDHS Data File.

As had been earlier observed, Table 3.8 shows that in Kenya people are predominantly christians (92 per cent). Christians prohibit child marriage and polygynuous marriages which are likely to lower age at marriage. On the other hand, muslims allow them hence the low mean age at marriage for muslims (16.6 years). Customary haw also allows child marriage and polygamous marriage and is likely to be used by the no religion category which further explains the reason for their low age at first marriage (16.4 years). The high predominance of christians however, influence the grand mean greatly.

3.8 Occupational Status before Marriage

Occupation meaning wage employment requires educational skills which means that one has to remain in the school system longer. Therefore, female occupation status before marriage can determine age at first marriage.

| | <u>M</u> | arriage | by Wor | k befor | e Mar | riage | | |
|-------|----------------------|--------------|---------------|---------------|------------|------------------|------|----------------------------------|
| Work | <u>A G E < 15</u> | A T 15-17 | FIRS 18-19 | т ма 20-24 | R R 25+ | I A G E Total | N | Mean Ale at First Marriage |
| No | 20.4 | 36.7 | 22.2 | 17.6 | 3.2 | 100.0 | 4074 | 17.1 |
| Yes | 11.2 | 23.9 | 24.5 | 32.4 | 3.0 | 100.0 | 1181 | 19.0 |
| Total | 16.4 | 33.4 | 22.6 | 20.9 | 4.3 | 100.0 | 5255 | 17.5 |

Table 3.9Percentage Distribution of Respondents by Age at FirstMarriage by Work before Marriage

Source: Computed from KDHS Data File.

Table 3.9 clearly shows that wage employment before marriage has a positive effect on age at first marriage. While mean age at first marriage is 17 years for those who had not Worked before marriage, it is 2 years higher (19 years) for

those who had worked. Since wage employment does with elucational level, then those who had worked before marriage are likely to have at least secondary education, are likely to be living in the urban areas and are likely to be yound. The ones who did not work before marriage are however, likely to be clder, less educated and living in rural areas and therefore tend to adhere strongly to the traditional customs which favour early marriage.

Marked variations are observed in proportions carrying among different marriage cohorts for the two categories of work status. While 60 per cent of those who did not work before marriage, had been married by age 20 years, less than 60 per cent had done so among those who had worked before worked. It is therefore clear that work before marriage affects age at first marriage. However, due to the low educational level of most women and their rural predominance, few (23 per cent) were able to secure jobs before marriage. Therefore they have very little effect on the grand mean which balances at a level close to that of the larger group that had not worked before marriage.

3.9 Age at First Sexual Intercourse

Demographic factors can also influence ones behaviour. Age at menarche denotes a transition from childhood to adulthood. In many African societies, once a firl jets her first menstruation, she starts being prepared for marriage. One such preparations is introduction to sexual intercourse. This is usually done after female initiation rites have been lone. In the traditional society this was done without high

incidences of premarital pregnancy. However, in contemporary Kenya, where traditions are ereding fast, it is impractical to prohilit premarital sex, which has resulted in high incidences of pre-marital pregnancies and births as was observed by Gyepi¹ in his stuly on adolescent fertility.

| Marria e ty Age at First Sexual Intercourse | | | | | | | | |
|---|------|-------|-------|-------|-----|-------|------|----------|
| Age at First | AG | EAT | FIR | STM | ARR | IAGE | | Mean A_e |
| Relation | <15 | 15-17 | 18-19 | 20-24 | 25+ | Total | N | Marriage |
| <14 | 33.0 | 36.1 | 16.0 | 12.9 | 2.0 | 100.0 | 700 | 15.5 |
| 14-15 | 4.9 | 51.5 | 24.6 | 16.0 | 3.0 | 100.0 | 1690 | 17.4 |
| 16-17 | - | 33.9 | 42.3 | 21.2 | 2.5 | 100.0 | 1208 | 16.1 |
| 18-19 | - | - | 43.5 | 52.0 | 4.5 | 100.0 | 733 | 19.7 |
| 20+ | 26.2 | 24.0 | 11.9 | 31.3 | 6.6 | 100.0 | 1210 | 17.1 |
| Total | 18.4 | 33.6 | 22.6 | 20.5 | 4.3 | 100.0 | 5541 | 17.5 |

Talle 3.10

Source: Computed from KDHS Data File.

X± III

Talle 3.10 shows that age at first union increases with age at first intercourse. This trend is broken by those who reported age at first intercourse as at 20 years and alove. The same table also shows that, of those who had first sexual experience at age 20 years or over, 60 per cent had their first marriage long lefore which implies tendency to delay first intercourse within marriage even for marriages occuring after age 15 years. This is clvicusly impractical and clearly indicates effect of reporting errors that were not removed at the file cleaning stage. Further analysis of the KDHS Jata on

Gyepi Garbrah, Adolescent Fertility in Kenya The Pathfinder Fund, Nairobi, 1965. 1.

age at first intercourse by age at first birth, indicates incidence of births occuring before first intercourse which is impossible. Questions on sexual relations are very sensitive and people are shy to report early sexual experiences. So in this analysis, first sexual intercourse at age 20 years or above will be ignored.

The same table also show that most Kenyan women have their first sexual relation at a es 14 and 15 years while first Darriages peak at two or more year later (15-17 years). That first intercourse, preceds first warriage was also observed by Ocholla-Ayayo and Muganzi¹ when they claerved that timin, of parriages with chances of pregnancy is practiced by certain societies in Kenya. In the traditional society, to have sexual relations when still uncirculcised or to become pregnant before faciale initiation rites were performed, was regarded as near sinful. This helped to delay onset of sexual relations hence marriage and childtearing. In contemporary Kenya, female circuscision is prohibited and with fast eroding traditions and the rapid rate of modernization, the youth are indulaing in sexual activities early. Modernization, has made this easy through Loarding schools away from home and parents supervision, exposure through mass media through locks, magazines, films peer groups and availability of conducive environment for heterosexual activities like hotels,

Ocholla-Ayayo, A.B.C, Muganzi, Z., Field Work Report on Marriage Patterns as Fertility Determinants with Differential Effects among Kenya Ethnic Groups, PSRI, Research Programme, 1986.

lodges, guest houses and loys domitories. Early sexuality is usually followed by early pregnancy which in Kenya leads to expulsion from school, [Early granination of schooling and early onset of motherhood leaves the sirl with little option than to marry early so as to settle.

and a presenting to the data of commercial sector of the presentation

Summary in the t

This section has looked at the socio-economic factors The state of the influencing age at first warriage in Kenya. It was observed that there is a tendency to delay warriage among the younger cohorts. The factors that affect age at first carriage are mainly elucation, religion and place of residence. Secondary education was found to be necessary before age at first marriage can rise significantly. Monoganous marriages have a higher prevalence of late warriages than polygynous ones. Urban women were found to experience late marriages, they tend to le also more highly educated than their rural counterparts and they are also likely to le in wage employment which all have positive effects on ale at first parriage. It was also observed that in Kenya, age at first warriage is not synonymous with first sexual intercourse.

It is therefore hoped that as more women acquire secondary education and Kenya Lecomes more urbanized, age at first marriage in Kenya will rise.

CHAPTER FOUR

AGE AT FIRST MARRIAGE AND ITS RELATIONSHIP WITH

FERTILITY IN KENYA

Kenya is one of the African countries that has experienced exceptionally high fertility and population growth rates. According to the 1962 census data, the total fertility rate (TFR) was estimated at 5.3 children per woman and by 1977-79 it had reached a maximum of 8.0 children per woman then it started declining and by 1969 it had reached 6.7 children according to the KDHS. The numerium for high fertility appears to have started long lefore the Second World War Lut no reliable data have been collected for this period. After the Second Worll War, marked fertility increase was observed which could be attributed to the availability of more and better quality food. The colonialists introduced letter farming methods and high yield crops. By working in the farms for the white man, the Kenyans learned these techniques and when the colonialists left, the white highlands were taken by the Kenyans who were able to produce more food. Improved health services helped reduce mortality particularly of infants and pregnancy wastage. As a result, fertility remained high while mortality was declining which resulted in high population growth rate which reached 3.3 per cent per year according to the 1962 census data. This growth rate was alarwing and the government of Kenya realised that it was not commensurate with the economic growth and development of the country. It then lecaue necessary to reduce fertility and the family planning.

programme was launched in 1967 in Kenya.

The sim of the family planning programme was to reduce fertility and it was not very kindly received by the Kenyans who were still found to their traditional heliefs and norms of large families. Traditionally, childlearing particularly of many children was equated to "righteousness" and so women would find it difficult to control fertility. The rural women were even note negative about it and therefore the programme had very little impact and fertility continued to rise. It was then felt that elucation was necessary for people to change attitudes and values. Inproved educational status and in particular female education was necessary for fertility to decline. This was iven a lot of caupaien after independence in the 1960s and it is possible that by the late seventies some of the women who had tenefited from this campain had attained secondary education, and had started regulating their fertility. Feuale education has made tremendous progress in Kenya and more and more women are receiving formal education. This has in effect raised the the at first parriage which is a najor determinant of fertility.

In the previous chapter, leginning of matriage was found to vary across various socio-economic groups. This chapter will look into fertility by age at first marriage while controlling for selected socio-economic variables that have heen found to be important.

the second party of the same price along sheet the man

4.1 Fertility Levels and Differentials by Age at First Marriage

Total International Contractory

| | | | 10 | TOTA | 5 7. | a da | | | | |
|------------|-------|------|-------|------|------|-------|------|-------|-------|------|
| Age-Specif | ic Fe | erti | lity | Rat | tes | and | Mean | h Chi | ldren | Ever |
| | Born | by | Curre | ent | Age | e, KI | DHS, | 1989 | | |

| | Age-Specific | Mean Children | |
|---------------|----------------|---------------|--|
| Age | Fertility Rate | Ever Born | |
| 15-19 | 0.152 | 0.3 | |
| 20-24 | 0.314 | 1.5 | |
| 25-29 | 0.303 | 3.4 | |
| 30-34 | 0.255 | 4.9 | |
| 35-39 | 0.183 | 5.4 | |
| 40-44 | 0.099 | 7.1 | |
| 45-49 | 0.035 | 7.7 | |
| All Ages | 6.7 (TFR) | 3.5 | |
| Source: KDHS, | 1989. | | |

In Table 4.1 it is clear that fertility in Kenya is high. By the end of her reproductive period an average Kenyan woman is expected to have had 6.7 children if she experiences the prevailing age specific fertility rates in Kenya. The observed cumulative fertility is 7.7 children per woman who has virtually completed her reproductive period (age 45-49 years). However, a look at the age specific fertility rates shows that there is a declining trend in fertility towards the younger woman, women age 15-19 years have an age specific fertility rate of 152 children per 1000 women while among the older women aged 35-39 years the age specific fertility rate is 183 children per 1000 women. The fertility of the women is highest awong those in ages 20-34 years. This is the age when most women are in their early marriage life and are likely to reproduce fast. As the age advances from 34 years, the rates start declining. The same table also shows that the mean

parity increases with increase in age of woman. This is because as a woman's duration of marriage lengthens, the cumulative fertility increases if all things remain equal.

| | | Tab. | le 4.2 | | |
|-------------|------------|---------------|-----------|---------|----------|
| Mear | n Children | Ever Born | by Age at | First M | arriage |
| | | by Cur | rent Age | | |
| | | | | | |
| | | AGE | AT FI | RST | MARRIGE |
| Current Age | e N | 17 | 17-19 | 20+ | All Ages |
| | in last t | and the state | | | |
| 15-19 | 301 | 1.2 | 0.8 | - | 1.0 |
| 20-34 | 3019 | 4.5 | 3.4 | 2.7 | 3.6 |
| 35-49 | 1966 | 7.8 | 7.1 | 6.1 | 7.1 |
| All Ages | 5286 | 5.5 | 4.4 | 4.1 | 4.8 |
| | | | | | |

Source: Computed from KDHS Data File.

Table 4.2 shows that fertility decreases as age at first marriage increases for women of the same age. This shows that beginning of marriage is an important determinant of fertility. The mean parity of the women aged 35-49 years is 7.8 children for the women who married at ages below 17 years while it is 6.1 for those of same age cohort who married at age 20 years and over. This shows a reduction of 1.7 children when age at first marriage is raised from below 17 years to above 19 years. This decline is observed for all ever married women in the same age cohort. In short, age at first marriage is inversely related to fertility.

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4.2 Age at First Marriage and Fertility with Place of Residence as Control

The mean age at first marriage was found to be at least 0.5 years earlier in rural areas than in urban areas. It is therefore expected that with all things remaining equal, fertility will be higher in rural areas than in urban areas. Table 4.3 shows clearly that fertility varies by place of recidence. The women who had urban residence have on average of 2 children less than the rural women. The differentials persist even when age at first marriage is controlled.

Table 4.3

| Mean | Children | Ever | Born | by | AL.e | at | First | Marriage | Ly |
|------|----------|-------|-------|----|------|-----|-------|----------|----|
| | Т | ype o | f Pla | ce | cf R | esi | dence | | |

| | | 0 11 0 0 | T2 11 (1) | ACE | |
|------------------------|------|----------|-----------|-------|----------|
| Age at First Marriage | | CURR | ENT | AGE | |
| and Place of Residence | N | 15-19 | 20-34 | 35-49 | All Ages |
| 17 | 0110 | 1.0 | / 5 | 7.0 | |
| <17 years | 2112 | 1.2 | 4.5 | 1.0 | 2.2 |
| Urlan | 290 | 0.9 | 3.6 | 6.3 | 3.8 |
| Rural | 1822 | 1.3 | 4.7 | 7.9 | 5.8 |
| 17-19 VOATS | 1844 | 0.8 | 3.4 | 7.1 | 4.4 |
| timber | 284 | 0.5 | 27 | 5 6 | 2.0 |
| ULDAN | 207 | 0.5 | 4.1 | 2.2 | 5.0 |
| Rural | 1555 | 0.9 | 3.6 | 1.2 | 4.7 |
| 20+ years | 1332 | - | 2.7 | 6.1 | 4.1 |
| Urban | 279 | | 2.0 | 3.9 | 2.5 |
| Rural | 1054 | - | 3.0 | 6.4 | 4.4 |
| | 5004 | | 2.6 | | |
| All Ages | 5289 | 1.0 | 0.L | 1.1 | 4.0 |
| Urban | 658 | 0.8 | 2.7 | 5.3 | 3.1 |
| Rural | 4431 | 1.0 | 3.9 | 7.3 | 5.1 |

Source: Computed from the KDHS data file.

It is also clear that fertility varies with age at first parriage. As age at first marriage increases fertility decreases. Women aged 35-49 years who have virtually completed child tearing and married at ages under 17 years have mean parity of 1.7 children more than their age mates who married at age 20 years or above. The decrease in fertility by increase in age at first marriage is even greater for urban women. While the mean parity for urban women aged 35-49 years, who married at ages below 17 years is 6.3 children, it is only 3.9 children for those married at 20 years and above. For the rural women in same age cohort fertility decreases from 7.9 children for those who married at ages below 17 years to 0.4 children for those who married at ages below 17 years to 0.4 children for those who married at ages below 17 years to 0.4 children for those who married at ages below 17 years to 0.4

It is therefore clear that age at first marriage is negatively related to fertility even when type of place of residence is controlled. Urban residence has a negative effect on fertility and helps to lower the fertility further after the effect of late age at first marriage. However, it is clear that age at first marriage is more important in fertility reduction because women who marry early have very high fertility irrespective of whether in urban or rural areas.

4.3 Age at First Marriage and Fertility with Childhood Residence as Control

In the previous chapter rural childhood residence was found to be characterised by low age at first marriage. It is therefore expected that the fertility of women who had rural childhood, will tend to have higher fertility if all things remain the same. Table 4.4 clearly shows that fertility is

higher among women who spent their childhood in rural areas than those who spent it in urlan areas. For the urlan women $a_1 e^{-1} 35-49$ years, mean parity is 6.0 children while that of the women who had rural childhood in the same age is 7.2 children.

| Are at First Marria e | | CURE | RENT | AGE | |
|-------------------------|------|------|-------|-------|----------|
| and Childhood Residence | N | 1-19 | 20-34 | 35-49 | All Ales |
| | | | | | |
| . 17 years | 2111 | 1.2 | 4.5 | 7.8 | 5.5 |
| Urlan | 273 | 1.1 | 4.1 | 6.7 | 4.3 |
| Rural | 1838 | 1.2 | 4.6 | 7.9 | 5.7 |
| | | | | | |
| 17-19 years | 1844 | 8.0 | 3.4 | 7.1 | 4.4 |
| Urban | 226 | 1.0 | 3.2 | 6.0 | 3.4 |
| Rural | 1618 | 0.7 | 3.5 | 7.2 | 4.6 |
| | | | | | |
| 20+ years | 1332 | - | 2.7 | 6.1 | 4.1 |
| Urlan | 191 | - | 2.0 | 5.1 | 2.6 |
| Rural | 1141 | - | 2.9 | 6.2 | 4.3 |
| | | | | | |
| All Ages | 5288 | 1.0 | 3.6 | 7.1 | 4.0 |
| Urban | 690 | 1.0 | 3.2 | 6.0 | 3.6 |
| Kural | 4597 | 1.0 | 3.7 | 7.2 | 5.0 |

Table 4.4 <u>Hean Children Ever Born by Ase at First Marriage by</u> <u>Childhood Place of Residence</u>

S urce: C aputed from the KDHS data file.

A look at fertility by age at first marriage controlling for childhood residence shows that fertility decreases with increase in age at first marriage among women with same childhood residence; while the mean parity of the urban women aged 35-49 years is 6.3 children for those who married under 17 years, it is only 3.9 children for those who married at age 20 years and over, a decline of 2.4 children. The same trend is observed among the rural women. While mean parity among rural we gen aged 35-49 years is 7.5 children for those who warried below 17 years, it 6.4 children for those who warried at $a_0 = 20$ years and over a decline of 1.5 children.

This shows that while fertility is lower for urban women, it is even lower when ale at first marriage is higher. Even along the rural women who married late, fertility is much lower. Late age at marriage tends to reduce the curation of exposure to risk of childbearing as well as giving the woman an opportunity to advance in education and become more mature. This exposes the woman to moment ideas and she begins to change values and attitudes on family size. So late marrying women are likely to control their fertility performance in order to have fewer children.

4.4 Are at First Marriage and Fertility with Education as Control

Education has been observed to delay marringe and the beginning of childearing.

and has according and another has been although a second of the second o

| Ale at First Marriale | | CUKI | RENT | AGE | |
|------------------------------------|------|----------|-------|-------|------------|
| and Education | N | 15-19 | 20-34 | 35-49 | All ALES |
| 17 yuare | 2116 | 1.2 | 4 5 | 7.8 | 5.5 |
| No pears | 600 | 1.5 | 5 1 | 7 8 | + /. |
| None Traditional and the second | 500 | 1.3 | J.U | 7.0 | 6.0 |
| Primary . | 1106 | 1.1 | 4.3 | 1.1 | 5.0 |
| Secondary+ | 103 | 1.8 | 3.5 | 7.2 | 3.9 |
| 17-19 years | 1841 | 0.8 | 5.4 | 7.1 | 4.4 |
| Rene | 471 | 0.5 | 4.2 | 7.2 | 5.5 |
| Pricary | 1033 | 0.8 | 3.4 | 7.2 | 4.3 |
| Secondary+ | 337 | 0.6 | 2.9 | 5.6 | 2.9 |
| 20+ years | 1331 | | 2.7 | 6.1 | 4.1 |
| Noné | 330 | - | 3.4 | 6.1 | 5.3 |
| Privary | 570 | - | 29 | 6.7 | 43 |
| C. or p. and | 1.20 | WTARLAS. | 201 | 6.6 | C 0 |
| эссплатут | 432 | | 2.4 | 4 • 4 | 2.0 |
| all ales | 5282 | 1.0 | 3.6 | 7.1 | 4.8 |
| None | 1701 | 1.3 | 4.5 | 7.2 | 6.2 |
| Primary | 2709 | 1.0 | 3.7 | 7.3 | 4.6 |
| Storndary+ | 872 | (1.8 | 27 | 5.0 | 3.4 |
| occoncary! | 012 | 0.0 | 601 | J.U | 3.0 |

Table 4.5 Mean Children Ever born by Age at First Marriage by highest Education Level

Source: Computed from the KDBS data file.

Table 4.5 clearly shows that fertility decreases as wellan's education increases. However, it is alsorved that in dost cases wellen with primary education tend to have higher fertility than those with none. For the women $a_{c} = 35-49$ years and married at $a_{c} = 20$ and above years, mean parity is tolchildren for the uncducated, 6.7 children for those with stimary education and 4.4 children for those with secondary or higher. This therefore means that secondary education is necessary for significant decline in fertility considering the fact that a decline of 1.7 children is achieved when level of clucation rises from none to secondary. Table 4.4 also shows that fertility varies by abe at first warriage across the various education categories. Nean parity for uneducated women aged 35-49 years, who warry under and 17 years is 1.7 children higher than for those who warry after 19 years. Nean parity of the women aged 35-49 years who had primary education decreased by 1 child when age at first warriage increased from below 17 years to over 15 years, while for the women with secondary education, the decrease is even higher at 2.6 children.

The great decline in fertility auch, would with secondary education as age at first marriage increases can be explained by the observation that more of the wouldn with secondary education marry after age 19 years since secondary education requires many years of schooling. This helps delay marriage and in most cases childlearing. The wouldn who are more educated will tend to use contraceptive more to reduce fertility. However, it is clear that whatever the level of education, age at first marriage is still very important in determining fertility.

4.5 Age at First Marriage and Fertility with Musland's Education as Control

In cost traditional African societies, the husband is the decision-maker in the family and is therefore likely to influence the fertility behaviour of the wife. Consequently, it is necessary to examine the relationship between husband's education and fertility.
| ALC at First Marriage | | CUKE | ENT | AGE | |
|-------------------------|------|-------|-------|-------|----------|
| and Husland's Education | N | 15-19 | 20-34 | 35-45 | All ALCE |
| 17 years | 2007 | 1.2 | 4.5 | 7.5 | 5.5 |
| None | 420 | 1.5 | 4.2 | 7.6 | ú.4 |
| Primary + | 1140 | 1.2 | 4.7 | 6.0 | 5.7 |
| Secondary+ | 447 | 1.2 | 3.5 | 7.2 | 4.2 |
| 17-19 years | 1773 | 0.8 | 3.4 | 7.2 | 4.4 |
| Ncne | 247 | 1.3 | 3.5 | 7.2 | 5.5 |
| Priwary | 010 | 1.0 | 3.6 | 7.4 | 5.0 |
| Secondary+ | 640 | 0.5 | 3.1 | 0.4 | 3.2 |
| 20+ years | 1275 | - | 2.7 | 6.1 | 4.1 |
| None | 189 | - | 4.1 | 6.1 | 5.4 |
| Prinary | 540 | | 2.9 | 6.6 | 4.0 |
| Seconda ryt | 546 | - | 2.4 | 5.1 | 3.0 |
| All Ares | 5054 | 1.0 | 3.6 | 7.1 | 4.6 |
| Ncne | 250 | 1.4 | 4.3 | 7.2 | 5.9 |
| Fridary | 2566 | 1.1 | 4.0 | 7.4 | 5.3 |
| Seconcary+ | 1632 | 0.9 | 3.0 | 0.1 | 3.4 |

Table 4.6 Mean Children Ever Born Ly ALE at First Marriage Ly Husband's Highest Education Level

Source: Computed from the KDHS data file.

Table 4.6 shows that women whose husland's are highly educated tend to have lower fertility than those whose huslands are either uneducated or with only primary education. Mean parity is highest among women whose huslands are uneducated and lowest among those whose husbands had secondary education.

A lock across the age at first warriage categories shows that fertility decreases with increase in age at first warriage irrespective of the education category of husbands. For the wogen aged 35-49 years, wean parity decreases when age at first carriage increases from under 17 years to over 15 years by 1.5 children for those wowen with uneducated husbands, 1.5 children for those whose husbands had primary education and by 2.1 children for those whose husbands had secondary or higher elucation. Highly elucated husbands are likely to warry women who are highly educated too and are advanced in age far beyond pulerty. They are likely to desire fewer children and therefore unge their wives to use contraceptives to regulate fertility. However, it is clear that even among women whose husbands have some elucation, fertility varies by age at first parriage. This clearly indicates that age at first marriage has to increase for fertility to decline significantly.

4.6 Age at First Marriage and Fertility with Work Status Lefore Marriage as Control

Enployment in the formal sector of the economy is incompatille with childlearing. Table 4.7 shows that women who had workel before carriage have a mean parity which is one child less than women who did not work.

| Age at First Marriage | | CURI | RENT | AGE | |
|--------------------------|------|-------|-------|-------|----------|
| an! Work Lefore Marriage | N | 15-19 | 20-34 | 35-49 | All Ages |
| (17 years | 2097 | 1.2 | 4.5 | 7.8 | 5.5 |
| T | 1800 | 1.2 | 4.5 | 7.9 | 5.7 |
| les | 297 | 1.2 | 4.2 | 7.1 | 4.9 |
| 7-1, years | 1834 | Ū.U | 3.4 | 7.1 | 4.4 |
| 1 | 1428 | 6.6 | 3.5 | 7.0 | 4.5 |
| 28 | 406 | 0.0 | 3.1 | 7.6 | 4.1 |
| lot years | 1324 | - | 2.7 | 6.1 | 4.1 |
| | 847 | - | 2.0 | 6.3 | 4.4 |
| les | 477 | - | 2.7 | 5.6 | 3.6 |
| 11 A.es | 5255 | 1.0 | 3.6 | 7.1 | 4.8 |
| 10 | 4074 | 1.0 | 3.8 | 7.2 | 5.4 |
| les | 1181 | 1.0 | 3.2 | 6.7 | 4.1 |

Talle 4.7

| Mean | Childr | en Ever | Bern | Ly Are | at | First | Marriaje | Ly |
|------|--------|---------|--------|--------|-------|-------|----------|----|
| | Work | Status | Bafore | Marria | i ;e, | KDHS, | 1939 | |

Source: Conputed from the KDHS data file.

The same table 4.7 shows that fertility decreases with an increase in age at first marriage irrespective of work status before marriage. Of the women aged 35-49 years who have virtually completed childbearing, mean parity decreases when age at first marriage rises from under 17 years to over 19 years by 1.6 children for those who did not work and 1.5 children for those who had worked before marriage.

In the KDHS occupation status was not classified and women were just asked if they had worked leftere marriage in which case the answer was either "yes" or "no". Work here is therefore taken to mean any type of wage employment. Therefore the women who had worked before marriage are likely to be more educated and more of them living in the unitan areas. They are also likely to have married late and consequently started childlearing late. Little variation in fertility is observed across work status category. However, fertility decreases with increase in age at first marriage when work status is controlled. This indicates that whatever the lackground characteristics, for fertility to decline significantly, age at marriage has to increase.

4.7 Age at First Marriage and Fertility with Type of Marital Union as Control

In the previous chapter, all at first marriale was found to le earlier in polylynous unions than in monogamous ones. This is expected to influence fertility. The results of table 4.0 show some relationship between fertility and type of marital union. Of the women alled 35-49 years who have

virtually coupleted childlearing, mean parity is lower for when in poly ynous unions than those in monopamous unions, However, for the entire population, polygaucus unions show higher mean parity. This is nost likely due to the small sample size of the poly ynous unions.

| hean ontrigen ever born by age at rust harringe by | | | | | | | | |
|--|----------|---------|-------|-------|----------|--|--|--|
| Ту | pe of Ma | rital U | nion | | | | | |
| Age at First Marriage | | CURI | RENT | AGE | | | | |
| and Union Type | N | 15-19 | 20-34 | 35-49 | All Ages | | | |
| <17 years | 1826 | 1.2 | 4.0 | 7.5 | 5.0 | | | |
| Monogarious | 1335 | 1.1 | 4.5 | U.3 | 5.5 | | | |
| Polyganous | 547 | 1.5 | 4.8 | 7.4 | 5.8 | | | |
| 17-19 years | 1634 | 0.7 | 3.5 | 7.3 | 4.5 | | | |
| Monogancus | 1375 | 0.7 | 3.5 | 7.4 | 4.4 | | | |
| Polyganous | 305 | 0.9 | 3.6 | 5.8 | 5.0 | | | |
| 20+ years | 1157 | 1.1 | 2.7 | 6.2 | 4.1 | | | |
| No | 926 | - | 2.7 | 6.2 | 4.1 | | | |
| Yes | 251 | 1.7 | 2.7 | 6.2 | 4.2 | | | |
| All Ages | 4757 | 1.0 | 3.7 | 7.3 | 4.8 | | | |
| No | 3644 | 0.9 | 3.6 | 7.4 | 4.7 | | | |
| Poly racious | 1113 | 1.3 | 3.9 | 7.0 | 5.2 | | | |

Talle 4.3 Mean Chillton Ever Born by Are at First Marriage by

Source: Computed from the KDHS data file.

However, when the relationship is controlled for type of marital union, it is observed that steat variation in fertility crists across age at first carriage categories. As age at first marriage increases, fertility decreases. Mean parity adon, wohen aged 35-47 years decreases when age at first Carriage increases from under 17 years to over 19 years Ly 2.1

children for women in monogamous unions and by 1.2 children for women in polygamous unions. This indicates that age at first marringe is important in determining fertility irrespective of type of marital union.

4.5 Age at First Marriage and Fertility with Marital Status as Control

It is within marriage that most childlearing takes place and therefore it is expected that marital stability will influence fertility performance.

| Age at First Marriage | | CURI | RENT | AGE | |
|-----------------------|------|-------|-------|-------|----------|
| and Marital Status | N | 15-19 | 2(-34 | 35-49 | All A es |
| (17 40000 | 2111 | 1.2 | 1. 5 | | E E |
| K17 years | 2111 | 1.4 | 4.5 | 7.0 | 3.3 |
| marrie/1 | 1090 | 1.2 | 4.0 | 1.9 | 5.0 |
| W1 Jowed | 99 | 1.0 | 4.2 | 7.5 | ú.7 |
| bivorced/Separated | 121 | 1.3 | 3.5 | 4.9 | 3.7 |
| 17-19 years | 1844 | 17.8 | 3.4 | 7.1 | 4 4 |
| Harried | 1687 | 6.7 | 3.5 | 7 3 | 4.5 |
| Ut to t | 1007 | 0.7 | 1.3 | 6.9 | |
| MTTOMET | 49 | | 4.3 | 0.0 | ל.ב |
| Divorce 1/Separated | 108 | 1.2 | 2.5 | 4.4 | 2.8 |
| 20+ years | 1332 | - | 2.7 | 6.1 | 4.1 |
| Marriel | 1188 | _ | 2.7 | 6.2 | 4.1 |
| Willowell | 48 | | 2.6 | 6.5 | Ci.L |
| Div rcel/Separatel | 96 | - | 2.7 | 3.2 | 2.0 |
| | | | | | |
| All Ages | 5287 | 1.4 | 3.6 | 7.1 | 4.8 |
| Marrie! | 4765 | 1.0 | 3.7 | 7.3 | 4.8 |
| Vilwell | 196 | 1.0 | 4.0 | 7.1 | 63 |
| Diverce 1/Severate1 | 325 | 1 2 | 2 4 | 4.2 | 3.2 |
| | 763 | 1+6 | 4.7 | 4+2 | 3.4 |

Table 4.9 Mean Children Ever Born Ly Age at First Marriage by Current Marital Status

Source: Computed from the KDHS Jata file.

Results of the analysis in Table 4.9 show that among women aged 35-49 years who have virtually completed chillearing, there is a tendency of mean parity to decrease with parital dissolutions. The divorced or separated women show lowest fertility in all marriage cohorts. The widowed although few in number, show high fertility close to that of those in marriage. This could be attributed to the earlier findings, that the wilewed we an were mostly older women who had virtually completed childhearing and so the loss of husband lid not make much difference to their fertility. Of the women aged 35-49 years, those who were either separated or divorced, hal about a 3.3 children less than those who were either marriel or willowed. However, greater decline in fertility is observed when age at first marriage increases. Women in ages 35-49 years show a decline in fertility (when ale at first marriage increases from under 17 years to alove 19 years) of 1.7 children for the married category, 1.1 children for the widowed an! 1.7 children for the divorced or separatel category.

The fact that increase in age at first warriage shows a markel decline in fertility irrespective of marital status, implies that it is an important fertility determinant.

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4.9 Age at First Marriage and Fertility with Contraceptive

Use as Control

| | | | Tal | le | 4.10 | | | | |
|------|----------|--------|-------|-----|-------|-----|-------|----------|----|
| Mean | Children | Ever | Born | Ly | Age | at | First | Marriage | Ly |
| | Current | : Cont | trace | pti | ve Ur | se, | KDHS, | 1989 | |

| Age at First Marriage | | CURI | RENT | AGE | - |
|-----------------------|------|-------|-------|-------|----------|
| and Union Type | N | 15-19 | 20-34 | 35-49 | All Ages |
| | | | | | |
| 17 years | 2111 | 1.2 | 4.5 | 7.8 | 5.5 |
| No Method | 1668 | 1.1 | 4-4 | 7.6 | 5.3 |
| Any Method | 443 | 1.8 | 4.9 | 8.3 | 6.3 |
| 17-19 years | 1845 | 0.8 | 3.4 | 7.1 | 4.4 |
| No Method | 1277 | 0.7 | 3.4 | 6.9 | 4.1 |
| Any Method | 568 | 0.9 | 3.6 | 7.6 | 5.0 |
| 20+ years | 133, | - | 2.7 | 6.1 | 4.0 |
| No Method | 939 | - | 2.5 | 6.2 | 3.9 |
| Any Method | 393 | 1. 1. | 3.2 | 5.9 | 4.4 |
| All Ages | 5287 | 1.0 | 3.6 | 7.1 | 4.8 |
| No Method | 3884 | 1.0 | 3.6 | 7.0 | 4.5 |
| Any Method | 1403 | 1.2 | 3.9 | 7.3 | 5.2 |

Source: Computed from the KDHS data file.

The analysis in Table 4.10 shows that women who were using any method of contraceptive had slightly higher fertility than those who were not using any method regardless of current age. This is contrary to the expectation that fertility would be lower for those who are contracepting than for the non-contraceptors. This could be attributed to a possibility that women who were contracepting are those who were already victims of short breastfeeling period, amenorrhoea and short birth intervals or that contraceptives are being used for birth spacing by women who started childbearing early and not for reducing fertility. It is also possible that the women started using contraceptives only after they had the number of children they wanted, which is usually high.

Table 4.10 also shows that fertility declines by age at first marriage irrespective of whether contracepting or not. Mean parity for women aged 35-45 years declines when age at first marriage increases from under 17 years to over 15 years by 1.4 children for non-contracepting women and by 2.4 children for those who were using any method of contraception. The great difference due to age at first marriage among the contraceptors is because the women who married late are likely to have higher education than their counterparts who married early. Those who married early are likely to start using contraceptives only after they have had many children. Therefore late marriage is the one important factor here necessary for fertility to decline.

4.10 Age at First Marriage and Fertility with Ideal Number of

Children as Control

| Age at First Marriage | | CURI | RENT | AGE | | | | |
|--------------------------|----------------|-------|-------|-------|----------|--|--|--|
| & Ideal Number of Chil | d ren N | 15-19 | 20-34 | 35-49 | All Ajes | | | |
| - Altered over the later | | | 1.5 | 7.0 | | | | |
| 517 years | 2111 | 1.2 | 4.5 | 1.8 | 5.5 | | | |
| <4 children | 254 | 1.J | 3.8 | 6.9 | 4.3 | | | |
| 4 Children | 753 | 1.3 | 4.1 | 7.5 | 5.1 | | | |
| >4 Children | 11.4 | 1.2 | 5.0 | 8.0 | 6.1 | | | |
| 17-19 years | 1845 | 0.8 | 3.4 | 7.1 | 4.4 | | | |
| 4 Children | 342 | 1.0 | 2.9 | 5.0 | 3.4 | | | |
| 4 Children | 787 | 0.7 | 3.2 | 7.1 | 4.1 | | | |
| >4 Children | 714 | 0.7 | 4.0 | 7.2 | 5.2 | | | |
| 20t years | 1332 | 14210 | 2.7 | 6.1 | 4.1 | | | |
| A Children | 31.3 | - | 2.1 | 4.4 | 2.8 | | | |
| 4 Chillren | 587 | | 2.7 | 5.4 | 4.0 | | | |
| >4 Children | 431 | - | 3.4 | 6.6 | 5.1 | | | |
| | 6207 | 1 . | 3 1 | 7 1 | 48 | | | |
| All Ages | 5267 | 1.0 | 3.0 | 58 | 3.5 | | | |
| <4 Children | 202 | 1.0 | 2.0 | 3.0 | L .L | | | |
| 4 Children | 2127 | 1.0 | 3.4 | 1.0 | 4.4 | | | |
| >4 Children | 2249 | 1.0 | 4.3 | 1.5 | 3.0 | | | |

Table 4.11 Mean Children Ever Born by Age at First Marriage by Ideal Number of Children

Source: Computel from the KDHS Jata file.

Table 4.11 clearly shows that achieved fertility increases with increased ideal family size. The women who desired less that 4 children have 2.1 children less than those whose ideal number of children was more than 4. Ideal family size is, therefore positively related to fertility. The relationship remains within age at marriage categories and lecomes even more pronounced at marriages above by years.

As age at first marriage increases fertility decreases for all ideal number of children. The preatest decline in team parity is claserved among the women who desired less than four children. As age at first marriage increases from under 17 years to over 19 years, mean parity for women in ages 35-45 years decreases by 3.4 children for those who felt that less than 4 children was the ideal number, by 0.5 and 0.3 children for those who felt 4 and preater than 4 children respectively was ideal.

The women who feel that fewer than four children are ideal are likely to be women in career, or waye exployment who find it difficult to cope with child bearing and rearing. They could also be women who have higher aspirations for their children and are therefore likely to find many children expensive to cater for.

4.11 Repression Analysis

The multivariate analysis done so far in this chapter show that various socio-economic factors are important in explaining the fertility behaviour of the study population. It was also observed that most of these socio-economic variables are interrelated and their interaction are likely to affect fortility. In order to make more meaningful analysis, the effects of all selected socio-economic variables taken simultaneously are examined through the use of a multivariate regression method. The analysis will give us the estimates of

the effect of the selected socio-economic variables on fortility.

Fifteen independent variables were used of which all the socid-economic variables including age at first marriage were considered as categorical variables. For each variable, one category is treated as a reference category (R.C) and the other categories are represented by a dumpy variable each. The reference category gets value zero while all the other dummy variables get the value one. The demographic variables except age at first marriage were treated as continuous variables and included children ever born which is the dependent variable, age at first tirth, ideal number of children and age at first intercourse.

A correlation matrix revealed that current age and duration of marriage are highly correlated. In the presence of current age in single years, age at first marriage in single years showed an insignificant positive relationship with children ever form contrally to the expected. It was therefore necessary to categorise age at first marriage which made it not only negatively related but also significant.

Table 4.12

Regression Results of the Relationship between Fertility and Some Selected Socio-Economic Variables

| | Lummy | b- | 1- | | |
|--------------------------|-------------|--------------|-----------|-----------|--|
| Variable Name | Variable | Coefficients | Statistic | Si2. 1. | |
| Av. at first Intersource | 11525 | -0.002 | -2 577 | 0.6166 | |
| ld al Nuther of Children | V613 | 0.005 | 3.6(.) | 6.0100 | |
| August first birth | V212 | -0.25 | -25 209 | 6 666 | |
| Current Acc | V(11 2 | 0.26 | 72 456 | 0.0000 | |
| current age | 4012 | 0.20 | 72.430 | 0.0000 | |
| Age at first marriage | ∠17yrs | 0.25 | 2.895 | 0.0038 | |
| | 17-19yrs | 0.26 | 3.673 | 6.0002 | |
| | 20+y15 | k.C | | | |
| Region of Residence | Natrobi | -0.17 | -1.376 | 0.1650 | |
| action of activence | Central | R.C. | 110/0 | 001070 | |
| | Coast | -(1.11) | -(1.272 | 0.7859 | |
| | heetern | -4.44 | -1.(1)4 | 0.3166 | |
| | Nuanza | 6.15 | 1.656 | 6.6919 | |
| | P Vall. | v 0.16 | 1 77 | 0.0755 | |
| | Li eturo | 11 44 | 4 846 | 6.600 | |
| | Western | 0.11 | 4.040 | 0.0000 | |
| Place of Residence | Rural | 6.46 | 5.627 | 6.0000 | |
| | Urban | K.C | | | |
| Chilchood Place of | Rural | R.C | | | |
| kesidence | Urban | -0.17 | -2.301 | 0.6214 | |
| lishest Level of | None | 6.65 | 6.761 | 6.4465 | |
| Education | Primary | R.C. | | | |
| | Suc+ | -6.21 | -2.753 | 6.6659 | |
| Hushandle litchest | Non | -0.06 | -6 780 | 4 4 3 5 9 | |
| husedies law 1 | kriseru | | 0.700 | 0.435. | |
| Education react | Fridary | | -3 280 | 6 6616 | |
| | SECT | -0.20 | 3.203 | 0.0010 | |
| Vorked before warrings | No | K.C. | | | |
| Notice before morrage | Yes | -0.17 | -2.677 | 6.6674 | |
| Haton Press | | D 0 | | | |
| ouron type | Nonceanous | $-(\cdot 2)$ | -4 236 | 6. 64.4 4 | |
| | roryEyneus | -0.JI | -4.750 | 0.0000 | |
| Current Marital | Married | R.C. | | | |
| intervar | WIGOWEG | -6.74 | -5.526 | 6-6666 | |
| | Div./Sep. | -1.30 | -12.216 | 6.0000 | |
| Contracentive lise | No. Ne theo | R.C. | | | |
| | Any Method | 6.36 | 4.896 | 0.6600 | |
| R. 11. ten | Christian | P (* | | | |
| ur + 1, 101 | Migl4r. | (1.32 | 2 748 | 0 0058 | |
| | 110111 | 0.34 | 2.750 | 0.0000 | |

Hultiple R = 0.79805, k square = 0.63689, F Statistic = 355.85623, Sig.F = .0000

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The results in Table 4.11 show that 63.65 per cent of the variation in children ever born is explained by the 15 variables selected. The 5 coefficients are more from the reference category. The represeion results show the following observations.

Current Age

Results in Table 4.12 show that there is a positive relationship between age and CEB. This is expected because the clder the woman the longer she is likely to have been exposed to the risk of childbearing hence the higher the number of children ever born. The relationship is highly significant. For every one year increase in age, there is an increase of children ever born by 0.26 of a child.

ALC at First birth

The results in Table 4.12 show that age at first birth is negatively related to GEB. The higher the age at first birth the lower the number of GEB. This is expected especially when childbearing is confined to warriage, the lower the age at worker the number of a confined to risk of childbearing is confined to the to risk of childbearing ind consequently high completed fertility. For every one year

rise in eige at first birth there is a reduction of children ever bern by 025 of a child. The relationship is highly significant.

Ideal Number of Children

Results in Table 4.12 show that ideal number of children is positively related to CEb. There is a significant increase in mean children ever born as the ideal number of children increases. There is a .005 of a child increase in CEE when ideal number of children increases by one child.

Ale at First Marriage

Table 4.12 shows that there is a significant decrease in CEE as age at first marriage decreases. However, the increase in CEE is much higher (0.26 of a child) when age at first marriage decreases from 20 years and above to 17-15 years than when it decreases from 20 years and above to less than 17 years (0.25 of a child). This is expected because these who marry while too young usually suffer from addlescent infecuncity hence tend to have few CEE despite their early entry into marriage.

Place of Residence

The findings show that there is a significant increase in GEB as weach live in rural areas. The GEB of rural weach is 0.46 of a child higher than for urban weach. This is as expected from earlier findings that urban weach are more educated and are likely to be employed which makes childearing clifficult for them. Urbanization is also likely to change traditional customs and values to these favouring small family sizes.

Education

The regression results in Table 4.12 show that there is a significant reduction in fertility as woman's level of education increases from primary to secondary and higher. A 1.21 of a child decline in GEb is observed when education increases from primary to secondary and higher, however, an insignificant increase in fertility is observed when education decreases from primary to no education. This shows an inverse relationship between education and fertility.

husbands also play a role in fertility determination and their behaviour and characteristics are important. The findings show that there is a significant 0.2 of a child decline in CEB when husband's education rises from primary to secondary and higher. An insignificant decline is observed when education decreases from primary to no education.

Education operates through other factors to affect fertility. Higher education means longer stay in the school system which delays age at first marriage and sometimes age at first birth. Through expansion of the knowledge horizon education helps donge attitudes of large families to smaller families hence the need to use contraceptives more.

Work Status

Results in Table 4.12 show that wellen who has worked before carriage have a significantly fewer GEB than these who had not worked. There is a 0.17 of a child difference in GEB for the worken who has worked before carriage. This is possibly because of the time and conditions required in the formal sector employment which is incompatible with childbearing. Women who had worked before carriage are also likely to be more educated and are therefore likely to desire fewer children.

Unicn Type

Results in Table 4.12 show that polygynous unions have a significantly lower fertility than conceased and contrate. A t.51 of a child difference in CEb is observed. Possibly because in polygynuous unions wellen tend to observe prolonged periods of abstinence and treastfeeding.

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Current Marital Status

The results in Table 4.12 show that there is significant decline in CEB when we en are not in marital union. A reduction of 0.74 of a child reduction in CEE is observed when marriage is dissolutioned by death of husband. The reduction is even greater when dissolution is by divorce or separation. This can be explained by the earlier findings that divorced are older we can when are likely to have virtually completed their fertility, while separation and divorce are comen asong the younger we can when are likely to have horne very few children.

Contraceptive Use

The results show that there is a significant increase in fertility with use of contraceptives. This is contrary to the expected, lut confirms earlier findings. This is only probably because some women use contraceptives after having fallen victims of short lirth intervals and only use contraceptives for firth spacing of subsequent children and not for fertility reduction.

Religion

The results in Table 4.12 show that Muslius have higher fertility than christians. This is contrary to the observed results earlier. This may be explained by the interplay of other variables in the equation. Muslims have been observed to suffer from adolescent infecundity due to early age at first marriage, they have low education and low contraceptive use all of which all are likely to increase fertility.

Summary

In this chapter the relationship between a e at first marriage and fertility was examined while controlling for Various socio-economic variables. The multivariate analysis results show that education, place of residence, work status lefore marriage and age at first marriage are the major determinants of fertility. Fertility was observed to decline as level of education increases. Urban women were observed to have lower fertility than rural women a difference of 2 children and women who had worked before marriage were claserved to have one child less than those who had not worked.

However, even for wopen in the same socio-economic lackground, fertility was observed to decrease as age at first marriage rises. This therefore means that age at first marriage remains a major fertility determinant.

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SUMMARY AND CONCLUSION

5.1 Summary

This stuly aimed at two main objectives. The first was to examine the socio-economic and demographic differentials in age at first marriage as a preliminary to the second objective. To achieve this objective, the researcher has used divariate analysis to establish the relationship. The study has established that age at first marriage is influenced by type of place of residence, level of education, work status tefore marriage and religion. The second objective was to examine the influence of age at first marriage on fertility. To achieve this objective multivariate analysis method was applied. It was observed that fertility is greatly determined by age at first marriage, type of place of residence, level of education of woman and that of husland, work status before marriage and religion.

From this first analysis it was observed that age at first parriage is generally low in Kenya (17.5 years) and nearly universal where over 95 per cent of the women are married by age 25 years. However, the results show an increasing trend in age at first marriage as age of women decreases, Women with secondary or higher education are observed to have highest age at first marriage (mean 19.6 years) while uneducated women have a mean age at marriage of 16.5 years. Urlan women have leen observed to marry one year later than rural women and women who had worked before marriage have a mean age at first marriage of 19 years which is 2 years later than those who had not worked before marriage.

However, problems of location of exact date of marriage and of premarital fertility are weakening the overall effect of age at first marriage and fertility relationship even though the broad patterns still appear to be significant.

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The multivariate analysis have shown that fertility is inversely related to age at first marriage as had been . hypothesised earlier. The lower the age at first marriage the children ever However, various higher the mean born. socio-economic factors intervene and reduce the effect of age at first marriage on fertility. For example, the difference in achieved fertility for women in urban areas is not very 18 different across marriage cohorts when current age This is because urbanization tends to erode controlled. traditional customs and changes people's attitudes towards large family size. Urban women tend to desire small families and use contraceptives to regulate fertility as required, such that women who marry late will have short birth intervals while those who marry early truncate childbearing early. Fertility of women in age 35-49 years who have virtually completed childbearing has been observed to decrease from 6.7 children to 5.1 children in urban and from 7.9 children to 6.2 children in rural areas when age at first marriage increases from under $a_{\mathcal{L}}e$ 17 to 20 years and over respectively.

Secondary education has been observed to be a major determinant of fertility decline. It has been observed that secondary or higher education and late marriage reduces fertility a great deal. A difference of 4 children has been

claerved between uneducated women who marry under age 17 years and women with secondary or higher education who marry at ages 20 years or over. A similar trend is observed among women who had worked before marriage.

The Lultiple regression results show that place of residence, education, ideal number of children, current age, age at first lirth, education and work status leftre Larriage are the Lajor correlates of fertility. For instance Chb Gecreases by 0.21 of a child when education increases from primary to secondary or higher. however, there is an insignificant increase when education decreases from primary to "none". The results also show that there is a significant increase in CEB as age at first carriage decreases. An increase in CEB of 0.26 of a chilu is elserved when age at first carriage decreases from alove 15 years to 17-19 years. Children Ever Born allong rural wowen is 6.46 of a child Lore than among urtan women. Ideal number of children has been clearved to have a significant positive relationship with CEb as had been hypothesised earlier. However, contracultive use has been claserved to show a significant positive relationship with fertility. The fincings show that we are contrace ting have 0.3 of a child were GEB than non-contracepting women. This contradicts the hypothesis which has to le rejected.

5.2 Conclusion

The study has revealed that fertility is still high in Kenya and that increasing socio-economic development is highly correlated with lower fertility. As more would become concated and become absorbed in the formal sector of the concury, they will begin to change attitudes against early warriage and large family size. Marriage and childbearing will be postponed to allow for career development. As Kenya becomes more urbanised the standards of living will improve and women will begin to value other access in life in place of children. It is therefore hoped that if the same trend continues, fertility way continue to decline in Kenya.

In the regression analysis the selected variables explain up to 64 per cent of the fertility variation. There is need therefore for more research into this area in error to understand the source of other variation.

Given that the above implications of late entry intermarriage have been frustrated by the prevalence of premarital births among late marrying wellen, it is necessary to look intowhat causes it and hence how it can be prevented. Sex education in schools should be taught by professionals like those from the family planning organisation and not the regular teachers. This may have a better impact as was observed by Diamond 1 ethal. In their paper on "Choosing and Using Contraceptives". They observed that teenagers prefer to be taught sox education by other professionals other than their regular teachers.

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