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# Gender Based Determinants Of Coffee Consumption For Management Of Coffee Production In Kenya. 

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#### Abstract

Coffee is traded second to oil in the world, as it is the second drunk to water. Over sixmillion Kenyans derive livelihood in the coffee industry and is the fifth foreign exchange earner. There has been a slump from mid 1980s with production reducing from 130,000 MT to the current $47,000 \mathrm{MT}$. The rise of coffee drinking has been inevitable since its fast discovery in the early $15^{\text {th }}$ century and is a key competitor of water and traditional drinks. Coffee drinking is embedded in curiosity, commerce, and civil society, it is also luxurious and relaxing with positive impact on reduction of several illnesses as it makes desert pleasant. Coffee intake differ between males and females; young and old, based on the reason of coffee consumption. Coffee business is either production or consumption with pride or disgrace. Coffee production and consumption has increased progressively yet the same is not being felt in Kenya. This study investigated the gender based factors that determine coffee consumption and production and utilized secondary data and information collected, assembled and summarized with peer review by the class team. Domestic consumption in Kenya ranges from $3-7 \%$, which is associated with reduced production. There is a linkage between control of income, ownership of assets and decision-making in the home to the low domestic consumption of coffee hence low energy in production. Women face multiple challenges in the participation in the coffee business, which has influenced them to participate less in the consumption choices and subsequent motivation to increased production. Men need to support women to become landowners and encourage them to attend sensitization meetings through women groups or women only activities that offer confidence to take on leadership roles that will lead to decision on coffee drinking as part of the family menu.


Key words: Coffee, Coffee Intake, Production, Marketing, Gender

## Introduction

The value of Coffee is rated second in terms of it's trading in the world compared to oil (Ponte 2002). Over six- million Kenyans derive livelihood directly and indirectly in the coffee industry most of them being small scale farmers and is placed among top five agricultural exports (Coffee Directorate, 2015; Githae et al., 2011). The commodity is fourth foreign exchange earner representing a large share of national income and employment (Ponte, 2002). There has been a slump in the coffee sector from mid 1980s to date yet it contributes to $20 \%$ of hard currency (Mude, 2006; EPZA 2005; Gitu, 2004; Karanja \& Nyoro 2002). Coffee drinking began with controversy but later became a competitor of water and traditional drinks such as beer, wine, and juice and its rise has become inevitable. The Social Life of Coffee is viewed in terms of consumer revolution. (Anderson et al., 2006; Cowan

1969; Giovannucci, 1998; Laberge, 2013; Cornelis et al., 2006). Coffee drinking is embedded in curiosity, commerce, and civil society, which began with virtuosity and quickly became an integral part of urban living basically for relaxation, stress reduction and disease risk reduction (Inoue 2005; Cowan 1969; Laberge 2013; Giovannucci et al 1998; Tverdal et al 2003; Yamaji et al 2004; Ruhl \& Everhart, 2005; Inoue et al 2005; Andersen et al 2006; Iso et al 2006).

Preference of drinking coffee differs between male and female based on the reason of coffee consumption. Female have higher interest in the nutrients than male while Young male drink coffee than fellow young female; Furthermore female dislike the taste of coffee than male. Young people associate coffee with caffeine with little awareness of positive and negative effects on health. (Mirmiran et al. 2010; Du et al. 2010; Drewnoski, 2009; Rodenburg et al 2012; Pasquale et al., 2012; Demura et, al., 2013; Maruyama et al., 2010). Coffee is not only about agriculture, but it also has social dimensions of coffee drinking as part of everyday life culturally, economically, and addictive dimensions. Coffee production and consumption have increased progressively and is associated with economic growth (Izumi \& Takaya 2008; Mayoux 2011; Mayoux \& Mackie 2007; ICA, 2012; ICO, 2015).

Many studies have examined the effects of coffee consumption. More so factors of coffee production have also been sufficiently investigated but low level investigation of what coffee consumption in relation to gender has to the management of sustainability of its production, in which case this study has tried to do.

## Objective of the study

The objective of the study was to investigate the gender based factors that determine coffee consumption and establish gender based factors that determine coffee management and production

## Methodology

Research utilized secondary data and information collected from journals, records, books and Internet sites upon which relevant information was assembled and summarized based on the objective of the study. The written summary was then peer reviewed and corrected by the team of four i.e the lecturer and the classmates to correct and shape it to a research acceptable in a conventional standard in a series of presentations with the peers.

## Findings

## Consumer Drinking Habits

Coffee can be drunk in regular or decaffeinated, and either roast and ground or soluble. Population change, taste blandness, and issues on quality affect per capita consumption, which has led to introduction of new coffee products to fill the gap. The new Products include gourmet coffee and many other flavours that are meant to fill the developed gap (Lewin, Giovannucci \& Varangis, 2004).

Out-of-home sale points have been introduced to make it convenience for buyers and drinkers to easily access the drink without strain thus leading to an increased consumption. Furthermore, Technology has led to easy preparation methods and less expensive brands too. This has raised demand, increased markets, and increased availability of coffee with high shelf life. Social, economic and environmental sensitization coupled with food safety concerns has increased coffee consumption among younger and middle-aged consumers. There is flexibility in consumption of coffee at age below 35; thereafter it may be difficult to introduce coffee drinking (Lewin et al., 2004).

## Consumption and production of Coffee

Countries that Produce coffee, consume an average of 25 of total demand. Brazil consumes 50 percent, Indonesia 8 percent, Colombia 5 percent, Ethiopia 5 percent, Mexico 5 percent, and India 3.5 percent. Brazil leads in promotion of the domestic consumption, which every country is trying to increase for production sustainability. Growth rate of consumption for most producing countries has increased than that of consuming countries (Lewin et al., 2004).

Kenya has had low domestic consumption ranging from 3-7\% for the last half a century. This has also been complexed with reduced production from late 80's when the peak production was 130, 000 MT of clean coffee to the current average production of 47,000 MT. Ethiopia produces more coffee than Kenya but also consumes about 50\% of its coffee, resulting to a per capita consumption of 2.4 kg per person per year, while in Kenya consumes it is 70 g per person per year. Despite several initiatives by the Coffee Directorate and the government, the coffee drinking culture is yet to penetrate into the culture of the average Kenyan consumer.

Tied to the low consumption is the fact that Kenya, like many African countries, exports the bulk of its production in products with low extra value added, leading to reduction in incomes
that accrue to the local economy. Coffee is one of the world's most consumed beverage to water. More so, it is the world's largest traded commodity, after oil. Yet the world talks of petro-dollars, but never coffee bucks or coffee-dollars. Coffee is much more expensive than petroleum with its impact not felt in Kenya. An average of 1.6 billion cups of coffee are consumed per day. It is estimated that more than 80 per cent of the people over age 18 have consumed coffee in their lifetime.

There is a linkage between control of income, ownership of assets and decision-making in the home (Campbell et al., 2003). Men are primary land owners and in most cases have the final say regarding agricultural decisions in terms of use of land, choice of crop, how to dispose off products and how to use the income (Doss \& SOFA Team, 2007; UNDP, 1995; Mayoux \& Mackie, 2007; WEMAN, 2013). Women face multiple barriers to owning land. Some women face cultural prejudice and opposition from from attending meetings where discussion on coffee brewing can be taught (Jennings 2000). They may also be too burdened with work at home and on the farm, or be inhibited by a lack of confidence or low literacy levels (Mayoux, 2011; Wiig, 2012; Quisumbing, Payongayong \& Otsuka, 2004).

Gender is a critical factor that influences participation of male and female farmers in agricultural production. Food production activities are carried out more by female farmers while males are attracted to cash crops. Moreover women are involved in the weeding and other manual agricultural practices of cash crops (Oyugi et al., 2015; Van Heck, 2003)

Many coffee farmers are elderly, conservative and do not easily adjust to new technologies. They have a lot of attachment to their farms and are not easily willing to late go the ownership of coffee business and the coffee farms (Ngeywo et al, 2015)

## Coffee Production Trend in Kenya

There has been sustained production average of between 40000 MT and 55000 MT for the last seven years compared to the peak of 130,000MT clean coffee in 1989. There is on the other hand a decline in the area under coffee production, which is closely associated with the reduced production as shown in Table 1 below.

Table 1: Area under coffee and production for the last 7 years

|  | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Area in Ha (‘000 ${ }^{\text {s }}$ ) | 162.72 | 160 | 160 | 160 | 109.795 | 109.8 | 110 |
| Production (MT | 42 | 54.02 | 42 | 36.26 | 49 | 39.8 | 49.5 |
| Clean Coffee in |  |  |  |  |  |  |  |
|  <br> $000^{s}$ ) |  |  |  |  |  |  |  |

Source: AFFA Coffee Directorate (2015)
Table 2, show the leading consumer among the coffee exporting countries being Brazil with average consumption of 1.02 million MT of coffee with $95 \%$ of it being consumed at home. In Africa, Ethiopia leads in consumption with average consumed coffee being 0.17 million MT out of which $95 \%$ is consumed at home. Among the importing countries, European union leads with average of 2.05 Million MT out of which Germany leads within it with 0.45 Million MT. Germany consumes $88 \%$ of her coffee at home. USA leads as a country and is second in conglomeration of countries to European Union with a consumption volume of 1.12 million MT with $82 \%$ of it being consumed at home.

Table 2: World Coffee Consumption

| Country | Total consumption <br> (‘000 kg) | At home <br> consumption (\%) | Total Consumption <br> value (‘000 USD) |
| :--- | :--- | :--- | ---: |
| Exporting Countries | $2,191,596$ |  | 25487353 |
| Brazil | $1,017,353$ | 95 | $10,107,199$ |
| Colombia | 72,575 | 95 | $1,003,389$ |
| Ethiopia | 170,786 | 95 | $2,228,754$ |
| India | 96,655 | 95 | $1,261,354$ |
| Indonesia | 180,681 | 95 | $2,357,883$ |
| Mexico | 118,689 | 95 | $1,548,892$ |
| Philippines | 109,664 | 95 | $1,431,113$ |
| Venezuela | 83,193 | 95 | $1,085,672$ |
| Vietnam | 79,815 | 95 | $1,041,587$ |
| Others | 262,185 | 95 | $3,421,509$ |
| Importing countries | $\mathbf{4 , 9 6 8 , 0 7 3}$ |  | $\mathbf{1 4 7 , 8 9 6 , 5 1 1}$ |
| E. U | $2,049,180$ |  | $70,192,237$ |
| Austria | 63,984 | 88 | $1,967,696$ |
| Belgium | 46,116 | 82 | $1,514,450$ |
| Bulgaria | 18,955 | 95 | 222,024 |
| Cyprus | 4,306 | 95 | 68,019 |
| Czech Republic | 34,549 | 95 | $6,714,87$ |
| Denmark | 40,457 | 78 | $1,524,474$ |
| Estonia | 5,243 | 95 | 68,417 |
| Finland | 54,556 | 88 | $1,299,829$ |
| France | 291,941 | 81 | $8,778,397$ |
| Germany | 445,197 | 85 | $12,151,732$ |
| Greece | 54,257 | 69 | $1,872,593$ |


| Country | Total consumption <br> (‘000 kg) | At home <br> consumption (\%) | Total Consumption <br> value (‘000 USD) |
| :--- | ---: | :--- | ---: |
| Hungary | 12,718 | 95 | 218,911 |
| Ireland | 10,855 | 95 | 157,943 |
| Italy | 288,970 | 77 | $12,258,147$ |
| Latvia | 5,102 | 95 | 109,298 |
| Lithuania | 9,307 | 95 | 180,025 |
| Luxembourg | 10,664 | 95 | 240,137 |
| Malta | 1,059 | 95 | 13,816 |
| Netherlands | 69,704 | 79 | $2,497,048$ |
| Poland | 97,620 | 93 | $1,455,577$ |
| Portugal | 42,156 | 47 | $2,933,139$ |
| Romania | 42,818 | 95 | 558,775 |
| Slovakia | 10,138 | 95 | 188,086 |
| Slovenia | 9,327 | 95 | 129,431 |
| Spain | 173,205 | 57 | $9,976,793$ |
| Sweden | 58,454 | 80 | $1,941,259$ |
| United kingdom | 147,523 | 71 | $7,194,732$ |
| Japan | 359,544 | 63 | $19,792,503$ |
| Norway | 36,472 | 76 | $1,402,159$ |
| Switzerland | 52,794 | 82 | $1,759,838$ |
| Tunisia | 21,234 | 95 | 277,101 |
| Turkey | 34,234 | 65 | $1,432,309$ |
| USA | $1,120,924$ | 82 | $36,157,697$ |
| Others | $1,293,691$ | 95 | $16,882,667$ |

Source: ICO

## Discussion

Though the value of Coffee is rated second in terms of it's trading in the world compared to oil (Ponte 2002) it is not really felt by the farmers despite its importance in the livelihood of many rural folk. Even with low quantity of coffee produced, the same is not consumed to a substantive amount rendering high consumption level to importing countries as the USA and the European Union. There has been a sustained low production since mid 1980s to date, which has led to different strategies of improving its prowess in vain.

Coffee drinking provides experience of different dimensions which include social, economic and habitual which all build a defined culture that is not easy to eradicate. It is seen as a class to drink coffee as it is of high class to carry coffee farming, a culture that was introduced and perpetuated by the Colonial era. The making of the women and children to be the ones carrying out the farm work makes it look a punishment venture especially when the final income is not equally enjoyed by the husband who only participate actively at an advance stages of the value chain. Most of the women and poor youth have no access to information on how to prepare coffee as well as on the benefits of coffee drinking, majority of which are in the rural areas where coffee farming occurs. This scenario has denied majority of the

Kenyan populace a privilege of drinking coffee and actively guarding the production that could see improved income and pride.

Increase in drinking coffee need to be a concern to everyone and need to be improved through trans gender participation because there is difference between male and female based preference of consumption depending on the reason of coffee consumption and taste as Mirmiran et al. 2010; Du et al. 2010; Drewnoski, 2009; Rodenburg et al 2012 indicated in there research. As was done in the USA the inculcation of coffee drinking in every home is key in increasing coffee production and triggering its increase in production. The attitude of farming should be worked on to include a high rate of pride in Coffee production as is in Columbia as indicated by Izumi \& Takaya 2008.

Farmers need to be encouraged to practice diversified farming that will encourage increased income at different stages, that essentially cushion the dry spell of income. This encourages sustained income throughout the year and gives the farmer or participant high edge in the economic status that he may not devalue coffee farming nor avoid drinking it due to cost.

## Conclusion

Gender involvement and participation is critical in increasing consumption and further increase in coffee production. Despite importance of gender sensitivity in consumption and production, there have been several barriers to female and youth being involved and whenever they are involved; it is always in the manual productive stages of the value chain and not the economic and social stages.

Barriers of land ownership can be overcome if men are willing
at least as a temporary measure, and by supporting women to become land owners through credit schemes. Sensitization meetings need to be put at times and locations suited to women's needs, and offering practical support with transport. Women need to be encouraged to participate in women's groups or women only activities to offer confidence to take on leadership roles that will lead to decision on coffee drinking as part of the family menu. Activities and programs meant to sensitize youth and women on coffee preparation, consumption and its benefits is a trigger to coffee consumption and production. Farm workers need to be encouraged and be informed of the benefits of the crops so that they don't see the agricultural practices as a punishment. Female gender needs to participate actively in the coffee value chain in entirety to enhance coffee production and consumption

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