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#### **About KNBS**

The Kenya National Bureau of Statistics (KNBS) is the principal agency of the Government for collecting, analysing and disseminating statistical data, and the custodian of official statistical information. The Bureau is also responsible for the co-ordination of the National Statistical System (NSS) in the country.

The functions of KNBS as defined in the Statistics Act 2006 are:

- Planning, authorising, coordinating and supervising all official statistical programmes undertaken within the NSS;
- Establishing standards and promoting the use of best practices and methods in the production and dissemination of statistical information across the NSS;
- Collecting, compiling, analysing, abstracting and disseminating statistical information on the matters specified in the First Schedule of the Statistics Act, 2006;
- Conducting the Population and Housing Census every ten years, and such other censuses and surveys as the Board may determine; and
- Maintaining a comprehensive and reliable national socio-economic database.

KNBS has an elaborate infrastructure for data collection across the country. This includes, a County Statistical Office in each of the 47 counties as data collection centre, two sampling frames for implementation of censuses and surveys and various databases for socio-economic statistical information.

The Bureau collects various statistical information on monthly, quarterly, semi-annually and annual basis. Ad hoc surveys and studies are also carried out to gather information on specific indicators. Some of the statistical products of the Bureau include, Consumer Price Index (CPI), Leading Economic Indicators report, Quarterly Gross Domestic Product (GDP) release, Quarterly Producer Price Index (PPI), Quarterly Balance of Payment release, Annual Economic Survey report, Annual Statistical Abstract and County Statistical Abstract. The Bureau also provides information to local and international organisations including the IMF, UN, COMESA, ILO and EAC; and other data users. The Bureau maintains various platforms through which its products and statistical information are diseminated.

The Bureau provides information for monitoring the country's development agenda as well as internationally agreed indicators such Sustainable Development Goals (SDGs).

In undertaking its mandate, the Bureau is guided by the following Vision, Mission and Core Values.

#### Vision

To be a centre of excellence in production and management of quality Statistics.

#### **Mission Statement**

To develop, provide and promote quality statistical information for evidence-based decision making.

#### **Core Values**

- **Professionalism:** Strictly abide by professional considerations on the methods, standards and procedures for statistical production.
- **Confidentiality:** Guarantee confidentiality of data providers as provided in the Statistics Act 2006
- **Collaboration:** Collaborate with stakeholders to enhance the quality of statistical information
- **Teamwork:** Embrace teamwork as the hallmark of our success
- **Customer focus:** Commitment to meet the needs of our customers and to always focus on customer satisfaction.
- **Accountability and Transparency:** Conduct business and lend services to stakeholders in a transparent and accountable manner.
- **Efficiency and effectiveness:** Promote high productivity, competence and usefulness of resources at the National and County level.
- **Innovation and Creativity:** Committed to innovation, invention, creativity and resourcefulness in service delivery.

#### **Data Quality**

The Economic Survey report is an annual publication prepared by the Kenya National Bureau of Statistics that provides socio-economic information covering a five-year period. Statistics presented in Economic Survey reports are produced in line with internationally sound and scientific methods that are anchored on the fundamental principles of producing official statistics.

#### **Data Sources**

The statistics published in the Economic Survey reports are based on a wide variety of sources including own surveys and censuses, studies carried out by other institutions and administrative data collected by Ministries, Departments and Agencies; County Governments; and establishments. The sources of data are always recognized.

#### **Accuracy and Reliability**

All censuses and surveys conducted by the Bureau are based on international standards and methods. Sampling and non-sampling errors that may occur in a census or survey are always disclosed. Data from administrative sources are subject to international best practices on statistics and are verified and validated through sectoral Technical Working Groups.

#### Periodicity

The Economic Survey report is an annual publication. However, the data may also be presented on quarterly and monthly basis for the review period.

#### Consistency

The Bureau maintains a compendium of statistical definitions. The Bureau has endeavoured to provide the same format of statistical tables as in previous years to enable consistency and trend comparison over time.

#### Accessibility

KNBS reports are disemintaed by various platforms. The platform include the KNBS website: www.knbs.or.ke, publications, press releases and social media. More information is also available from both the headquarter and the county offices.

#### **Timeliness**

The report is produced annually, at most 150 days after the end of the review year. Quarterly information is released at most 90 days after the review quarter.

#### **List of Acronyms and Abbreviations**

ADF African Development Fund

ADNOC Abu Dhabi National Oil Corporation

AfDB African Development Bank

AG Attorney General

AGOA African Growth and Opportunity Act

AIA Appropriation In Aid

AIDS Acquired Immuno-Deficiency Syndrome

API American Petroleum Institute
ATM Automatic teller machine
AYII Area Yield Index Insurance

BASAs Bilateral Air Services Agreements

BH Boreholes

BoP Balance of Payments

CAK Communications Authority of Kenya
CBA Collective Bargaining Agreement

CBD Coffee Berry Disease
CBD Central Business District
CBK Central Bank of Kenya
CBR Central Bank Rate

CFS Container Freight Station
CIP Census of Industrial Production
CMA Capital Markets Authority

COFOG Classification of Functions of Government

COICOP Classification of Individual Consumption by Purpose COMESA Common Market for Eastern and Southern Africa

CPC V2 Central Product Classification Version

CPI Consumer Price Index

CRA Commission on Revenue Allocation

CRB Credit Reference Bureau

DANIDA Danish International Development Agency
DTSs Deposit Taking Savings and Credit Co-operatives

DWT Deadweight Tons

E&PWSD Elderly and Persons with Severe Disability

EAC East African Community

EACC Ethics and Anti-Corruption Commission ECDE Early Childhood Development Education

EEC European Economic Commission

EFA Education For All

EGSS Environmental Goods and Services
EIA Environmental Impact Assessment

EPC Export Promotion Council

EPEA Environmental Protection Expenditure Accounts

EPP Emergency Power Producers
EPZ Export Processing Zone

EPZA Export Processing Zone Authority
ERC Energy Regulatory Commission
Esops Employee Share Ownership plans

ETF Exchange Traded Funds

EU European Union

FAA Federal American Administration

FBS Food Balance Sheet

FDI Foreign Direct Investment
FGT Foster, Greer and Thorbecke
FIC Full Immunization Coverage
FIS Foreign Investment Survey

FOB Free on Board FY Financial Year

GDC Geothermal Development Company

GDP Gross Domestic Product GER Gross Enrolment Rate

GFCF Gross Fixed Capital Formation GFS Government Finance Statistics

GNI Gross National Income
GoK Government of Kenya
GVA Gross Value Added
GWh GigaWatt Hours

HELB Higher Education Loans Board
HISP Health Insurance Subsidy Program
HIV Human Immunodeficiency Virus
IASA Inter Air Security Association

IBRD International Bank for Reconstruction & Development ICDC Industrial and Commercial Development Corporation

ICT Information, Communication and Technology

ID Identity Card

IDA International Development Association

IDB Industrial Development Bank IDR Import Dependeancy Ratio

IEBC Independent Elections and Boundaries Commission
IFMIS Integrated Financial Management Information System

IFS International Financial Services
ILO International Labour Organisation

ILRI International Livestock Research Institute

IMF International Monetary Fund IOCs International Oil Companies IPP Independent Power Producers

ISIC REV 4 International Standard of Industrial Classification Revision 4

ISPs Internet Service Providers
ISS Intergrated Survey of Services
IT Information Technology

JICA Japan International Co-operation Agency
JKIA Jomo Kenyatta International Airport

KAPU Kenya Airports Police Unit

KARI Kenya Agricultural Research Institute

KCB Kenya Commercial Bank

KCPE Kenya Certificate of Primary Education
 KCSE Kenya Certificate of Secondary Education
 KenGen Kenya Electricity Generating Company
 KeNHA Kenya National Highways Authority

KenInvest Kenya Investment Authority

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KeRRA Kenya Rural Roads Authority

KESSP Kenya Education Sector Support Programme KETRACO Kenya Electricity Transmission Company

KFS Kenya Forest Service

KG Kilogram

KIE Kenya Industrial Estates

KIHBS Kenya Integrated Household Budget Survey

KLIP Kenya Livestock Insurance Project KMTC Kenya Medical Training College KNBS Kenya National Bureau of Statistics

KOSF Kipevu Oil Storage Facility KPC Kenya Pipeline Corporation

KPHC Kenya Population and Housing Census KPLC Kenya Power and Lighting Company

KPS Kenya Police Service
KRA Kenya Revenue Authority
KRB Kenya Roads Board
KSh Kenya Shillings

KURA Kenya Urban Roads Authority

KV Kilo Volt
KW Kilo watt
KWh Kilo Watt Hour

KWS Kenya Wildlife Service

LAPSSET Lamu Port Southern Sudan-Ethiopia Transport Corridor

LATF Local Authority Transfer Fund

LFS Labour Force Survey
LPG Liquefied Petroleum Gas

LTM Long Term Mean
M1 Narrow Money Supply

M2 Broad Money Supply (Money supplied by CBK, Commercial banks & M3 Broad Money Supply (M2 plus Foreign Currency Holdings by Residents)

MAM March April May long rains
MCA Members of County Assembly
MDGs Millennium Development Goals

MIA Moi International Airport

MM Milimitres

MNOs Mobile Network Operators
MNPs Mobile Numbers Posted
MPC Monetary Policy Committee

MTEF Medium Term Expenditure Framework

MTP Medium Term Plan
MTP III Third Medium Term Plan

MVNO Mobile Virtual Network Operator

MW Mega Watt

n.e.c Not elsewhere classified

NAMATA Nairobi Metropolitan Area Transport Authority

NAS National Accounts Statistics NBFI Non-Bank Financial Institutions

NCC Nairobi City Council

NCDF National Constituency Development Fund

NCPB National Cereals and Produce Board

NCRP Nairobi Commuter Rail Project

NEMA National Environment Management Authority

NFA Net Foreign Assets
NFE Non Formal Education

NHC National Housing Corporation NHIF National Hospital Insurance Fund

NIB National Irrigation Board

NICD Nairobi Inland Container Deport NOCK National Oil Corporation of Kenya

NOFBI National Optic Fibre Backborne Infrastructure

NPC National Police ServiceNSE Nairobi Securities ExchangeNSSF National Social Security Fund

NTSA National Transport and Safety Authority

NWCPC National Water Corporation and Pipeline Corporation

NYS National Youth Service

ODPP Office of the Director of Public Prosecution

OECD Organization of Economic Cooperation and Development

OMO Open Market Operations

OND October-November-December short rains

OPEC Organization of Petroleum Exporting Countries

OVC Orphans and Vulnerable Children

PAYE Pay As You Earn

PCK Postal Corporation of Kenya
PCR Pupil Completion Rate
PPI Producer Price Index
PPP Public Private Participation
PPPs Public Private Partnerships
PSG Product Sharing Contracts

PSTR Primary to Secondary Transistion Rate

PSUT Physical Supply and Use Tables

PSVs Public Service Vehicles
PTP Profiency Tests Pass
PTR Pupil Teacher Ratio

RBA Retirement Benefits Authority
REP Rural Electrification Programme

RVR Rift Valley Railways

SACCO Savings and Credit Cooperative Societies
SADC Southern African Development Community
SAGA Semi Autonomous Government Agency

SDGs Sustainable Development Goals

SEEA System of Environmental Economic Accounting

SEZ Special Economic Zones SGR Standard Gauge Railway

SITC Standard International Trade Classification

SME Small and Medium Enterprises
SMS Short Messaging Service
SNA System of National Accounts
SOEs State Owned Enterprises
SSA Sub-Saharan Africa
SSR Self Sufficiency Ratio

SUT	Supply and Use Tables
TEAMS	The East Africa Marine System
TEUs	Twenty-Foot Equivalent Units
TIVET	Technical Industrial and Vocational Educational Training
TJ	Tera Joules
TLB	Transport Licensing Board
TOT	Total Rainfall
TSA	Tourism Satellite Account
TSC	Teachers Service Commission
UAE	United Arab Emirates
UK	United Kingdom
UNCTAD	United Nations Conference on Trade and Development
UNFCC	United Nations Framework on Climate Change
UNSC	United Nations Statistical Commission
US /USA	United States of America
USD	United States Dollar
VAT	Value Added Tax
VCT	Voluntary Counseling and Testing
VoIP	Voice over Internet Protocol
WEF	Women Enterprise Fund
WHO	World Health Organization
WPPs	Water Purification Points
WRA	Water Resource Authority
WTO	World Trade Organization

#### **Summary and Outlook**

#### **International Scene**

The global economy expanded by 3.6 per cent in 2017 compared to a growth of 3.1 per cent in 2016. The United States of America registered a growth of 2.2 per cent in 2017 compared to a growth of 1.5 per cent in 2016, largely due to increase in household income that supported private consumption and investments. The growth in United Kingdom decelerated to 1.5 percent in 2017 due to a weaker aggregate demand and uncertainty surrounding the Brexit negotiations. In China, real Growth Domestic Product (GDP) was boosted by fiscal support and recovery in exports to grow by 6.8 per cent in 2017 compared to 6.7 per cent in 2016. Real GDP in Sub Saharan Africa expanded by 2.6 per cent in 2017, mainly due to higher commodity prices and favourable external environment.

Global inflation rose to 3.1 per cent in 2017 from 2.8 per cent in 2016, partly attributable to increase in oil prices. World trade grew by 4.8 per cent in 2017 compared to 2.6 per cent in 2016 as result of recovery in global manufacturing occasioned by increased investments. Global unemployment rate stood at 5.6 per cent in 2017.

#### **Domestic Economy**

Kenya's economy is estimated to have expanded by 4.9 per cent in 2017 compared to a revised growth of 5.9 per cent in 2016. The slowdown in the performance of the economy was partly attributable to uncertainty associated with a prolonged electioneering period coupled with adverse effects of weather conditions.

Generally, key macroeconomic indicators largely remained stable and therefore supportive of growth in 2017. Interest rates declined due to the impact of their capping that became effective in September 2016. In the money market, the Kenyan Shilling strengthened against most of the major trading currencies but weakened against the Euro and the US Dollar in 2017. The current account deficit widened in the year under review on account of significant growth of imports against a slower growth of exports. There was a moderate build up in inflationary pressures mainly due to significant increase in oil and food prices during the year under review. Consequently, inflation rate rose from 6.3 per cent in 2016 to 8.0 per cent in 2017.

Performance across the various sectors of the economy varied widely, with Accommodation and Food services; Information and Communication Technology; Education; Wholesale and Retail trade; and Public Administration registering accelerated growths in 2017 compared to 2016. On the other hand, growths in Manufacturing; Agriculture, Forestry and Fishing; and Financial and Insurance decelerated significantly over the same period and therefore dampened the overall growth in 2017.

#### **Employment, Earnings and Consumer Prices**

A total of 897.8 thousand new jobs were created in 2017 with 787.8 thousand new jobs created in the informal sector. Employment in the informal sector accounted for 83.4 per cent of total employment in the period under review. The number of persons engaged, excluding those in rural small scale agriculture and pastoralist activities, rose by 5.6 per cent from 16.0 million persons in 2016 to 16.9 million persons in 2017. Wage employment in the modern sector increased from 2,553.5 thousand persons in 2016 to 2,656.6 thousand persons in 2017. The total number of self-employed and unpaid family workers within the modern sector rose from 132.5 thousand persons in 2016 to 139.4 thousand persons in 2017. Annual nominal

average earnings per person in the modern sector increased from KSh 645,035.2 in 2016 to KSh 684,097.0 in 2017. However, annual real average earnings per person decreased from KSh 379,968.9 to KSh 369,004.3 over the same period. Inflation as measured by Consumer Price Index increased from 6.3 per cent in 2016 to 8.0 per cent in 2017.

#### Money, Banking and Finance

During 2017, the Central Bank continued to pursue accommodative monetary policy aimed at increasing credit uptake by the private sector to stimulate economic growth. The Central Bank Rate (CBR) was retained at 10.0 per cent to continue anchoring inflation expectations in 2017. The maximum lending rate is capped at no more than 4.0 per cent above the CBR. Average interest rates on deposits increased to 8.22 per cent in December 2017 from 7.33 per cent in December 2016. Commercial banks' average lending interest rates on loans and advances remained stable at 13.64 per cent in December 2017. The 91-day Treasury bill rate fell from 8.44 per cent in December 2016 to 8.01 per cent in December 2017.

Extended broad money supply (M3) grew by 8.9 per cent in December 2017 to KSh 3,010.9 billion from KSh 2,764.5 billion in 2016. Overall liquidity, which is the broadest definition of money supply, grew by 10.1 per cent to KSh 4,085.1 billion during the review period. Total domestic credit grew by 7.9 per cent in 2017 with credit to the private sector expanding by 2.4 per cent.

The Nairobi Securities Exchange 20-Share index rose to 3,712 points in December 2017 from 3,186 points in December 2016, with market capitalization rising to KSh 2,522 billion in December 2017. In the insurance sector, gross premium income for general business increased by 2.5 per cent to KSh 124.7 billion in 2017. Total Assets in life business grew by 15.8 per cent to 353.6 billion in 2017. Retirement benefit assets grew to KSh 963.1 billion in June 2017 from KSh 831.8 billion in June 2016.

#### **Public Finance**

National Government outlay for 2017/18 is expected to increase by 21.7 per cent to KSh 2,777.8 billion from KSh 2,283.0 billion in 2016/17. Recurrent expenditure is estimated at KSh 2,107.2 billion in 2017/18, while development expenditure is budgeted at KSh 670.6 billion. Total revenue collections by the National Government, inclusive of grants is expected to be KSh 1,710.2 billion, of which KSh 1,466.2 billion is expected to be generated from tax revenue.

Total stock of public debt as at end of June 2017 stood at KSh 3,971.4 billion, of which external debt position was KSh 2,294.2 billion, accounting for 57.8 per cent. Public debt servicing in 2017/18 is expected to amount to KSh 623.1 billion.

County governments budgeted to spend KSh 395.9 billion in 2017/18 against total expected receipts amounting to KSh 401.6 billion. National government current transfers to county governments, inclusive of conditional grants, is estimated to increase by 14.4 per cent to KSh 345.7 billion during the review period.

#### **International Trade and Balance of Payments**

Total value of exports increased by 2.8 per cent to KSh 594.1 billion in 2017. The major foreign exchange earners were: tea; horticulture; articles of apparel and clothing accessories; coffee and titanium ores and concentrates, collectively accounting for 64.8 per cent of total domestic export earnings, during the review period. Africa remained the leading destination of Kenya's

exports; accounting for 37.7 per cent of total exports in 2017, with East African Community (EAC) accounting for more than half of total exports to Africa. Exports to Europe accounted for 24.7 per cent of total exports in 2017, with the bulk of exports destined to European Union (EU) countries.

The import bill grew by 20.5 per cent to KSh 1,725.6 billion in 2017. The main drivers of the import bill were: industrial machinery; petroleum products; road motor vehicles; iron and steel; animal and vegetable fats and oils; and sugar. Asia accounted for 64.2 per cent of total imports in 2017, continuing its dominance as the leading source of Kenya's imports. The ratio of exports to imports deteriorated from 40.4 per cent in 2016 to 34.4 per cent in 2017. Trade weighted exchange rate index deteriorated from 114.8 in 2016 to 116.5 in 2017, a reflection of the depreciation of the Kenyan Shilling against the currencies of the major trading partners. The current account widened by 38.3 per cent to KSh 518.9 billion in 2017, reflecting a 6.7 per cent of GDP. Net inflows of international trade in services increased by 11.4 per cent to a surplus of KSh 160.9 billion in 2017, supported by increased foreign travel receipts. Net financial inflows increased by 13.4 per cent to a surplus of KSh 476.1 billion in 2017, on account of increase in short term capital inflows. These developments resulted in an overall balance of payments deficit of KSh 16.9 billion in 2017 from a surplus of KSh 13.1 billion recorded in 2016.

#### **Agriculture Sector Review**

The agriculture sector recorded mixed performance in 2017 which led to a decelerated growth of 1.6 per cent compared to 5.1 per cent growth in 2016. Drought coupled with pests such as the fall army worms and diseases led to the overall decline in agricultural production in 2017. Despite reduced production of major crops during the period under review, better prices were realized for the marketed agricultural output. Consequently, the value of marketed production increased by 8.2 per cent from KSh 413.2 billion in 2016 to KSh 446.9 billion in 2017. Maize production declined from 37.8 million bags in 2016 to 35.4 million bags in 2017. Similarly, sugarcane production declined from 7.2 million tonnes in 2016 to 4.8 million tonnes in 2017. The recorded declines in production of maize and sugarcane resulted in huge imports of maize and sugar to bridge the deficit. Wheat production declined by 23.1 per cent from 214.7 thousand tonnes in 2016 to 165.2 thousand tonnes in 2017. Tea production declined by 7.0 per cent to 439.8 thousand tonnes in 2017 while marketed coffee dropped by 15.1 per cent to 33.7 thousand tonnes in the year under review. The volume of fresh horticultural exports increased from 261.2 thousand tonnes in 2016 to 304.1 thousand tonnes in 2017. The quantity of marketed milk declined by 17.4 per cent from 648.2 million litres in 2016 to 535.7 million litres in 2017.

#### **Environment and Natural Resources**

In 2017, the Environment and Natural Resources sector registered mixed performance in indicators. The total expenditure by national government on water and related services is expected to decline by 19.1 per cent from KSh 43.9 billion in the year 2016/17 to KSh 35.5 billion in 2017/18. The value of fish landed, which has been on the decline for the last three consecutive years, dropped further by 6.1 per cent to KSh 23.0 billion in 2017.

Total area covered by forests increased marginally from 4,190.0 thousand hectares in 2016 to 4,229.4 thousand hectares in 2017. Sale of timber from Government forests declined from 1,037.3 thousand true cubic metres in 2016 to 881.6 thousand true cubic metres in 2017. The total value of mineral output increased by 2.0 per cent to KSh 23.8 billion in 2017. Most parts of the country experienced reduced rainfall and rising temperatures during the review period.

#### **Energy Sector**

The energy sector witnessed increased international crude oil prices in 2017 following supply cuts by top producers under Organization of Petroleum Exporting Countries (OPEC). The average Murban crude oil prices rose to an average of US Dollars 54.91 per barrel in 2017 up from an average of US Dollars 44.18 per barrel in 2016. Total volume of petroleum products imported into the country increased from 5,990.0 thousand tonnes in 2016 to 6,347.7 thousand tonnes in 2017. However, domestic exports of petroleum products declined by 2.3 per cent to 32.4 thousand tonnes over the same period. During the review period, the total import bill of petroleum products increased by 34.2 per cent to KSh 265.3 billion while the total value of petroleum products exported, including re-exports, declined by 19.1 per cent to KSh 36.1 billion in 2017.

Total installed and effective electricity capacity was 2,339.9 MW and 2,264.4 MW, respectively, in 2017. Total electricity generation expanded by 3.0 per cent to 10,359.9 GWh in 2017. However, the hydro generated power registered a significant drop of 29.9 per cent to 2,776.8 GWh while thermal and geothermal generated power expanded by 72.3 and 6.1 per cent, respectively, in 2017. The number of customers connected under the rural electrification program expanded by 30.6 per cent from 972,018 in 2016/17 to 1,269,510 in 2015/16.

#### **Manufacturing Sector**

The manufacturing sector real value added rose by 0.2 per cent in 2017 compared to a growth of 2.7 per cent in 2016. Output volume of the sector however, declined by 1.1 per cent mainly on account of reduced production of food products, beverages and tobacco, leather and related products, rubber and plastics and non-metallic minerals sub sectors. The sector's formal employment rose to 303.3 thousand persons in 2017 and accounted for 11.4 per cent of the total formal employment. The number of local employees engaged by EPZ enterprises increased to 54,622 persons in 2017 from 52,947 persons in 2016. Loans advanced to the sector rose to KSh 311.8 billion in 2017 from KSh 275.8 billion in 2016.

The Producer Price Index (PPI), which measures inflation of products as they leave the factories, increased by 4.6 per cent in 2017 mainly due to increase in prices of manufactured food products, electricity and manufactured basic metals.

#### **Building and Construction**

The Building and construction sector grew by 8.6 per cent in 2017 compared to 9.8 per cent registered in 2016. The total expenditure by National Government on roads is expected to increase from KSh 173.7 billion in 2016/17 to KSh 198.4 billion in 2017/18. Development expenditure on roads is expected to increase by 19.2 per cent from KSh 113.2 billion in 2016/17 to KSh 134.9 billion in 2017/18. Funds for repair and maintenance of roads are expected to increase from KSh 60.5 billion in 2016/17 to KSh 63.5 billion in 2017/18. Loans and advances from commercial banks to building and construction sector increased to KSh 109.9 billion in 2017 from KSh 104.8 billion in 2016, a 4.9 per cent increase. Following the completion of Phase I of the Standard Gauge Railway project in May 2017, the construction work for Phase 2 which runs from Nairobi to Naivasha started in September 2017.

#### The Tourism Sector

The Tourism sector recorded improvements despite a prolonged electioneering period and negative travel advisories issued by some countries in 2017. Tourism earnings increased by 20.3 per cent from KSh 99.7 billion in 2016 to KSh 119.9 billion in 2017. The number of international visitor arrivals increased by 8.1 per cent to 1,448.8 thousand in 2017. The

number of hotel bed-nights occupancy increased by 11.3 per cent from 6,448.5 thousand in 2016 to 7,174.2 thousand in 2017. The number of international conferences contracted by 15.9 per cent from 227 in 2016 to 191 in 2017 while local conferences increased by 2.4 per cent from 3,755 to 3,844 over the same period. Visitors to national parks and game reserves rose by 2.6 per cent to 2,345.2 thousand in 2017. However, visitors to museums, snake parks and historical sites decreased by 15.3 per cent to 782.0 thousand in 2017 from 923.1 thousand in 2016.

#### **Transport and Storage**

The value of transport and storage sector output expanded by 8.8 per cent from KSh 1,025.8 billion in 2016 to KSh 1,115.7 billion in 2017. During the same period, the value of output from road transport increased by 5.7 per cent to KSh 702.1 billion, accounting for 62.9 per cent of the total output in the sector. Output from air transport sub-sector increased by 14.9 per cent to KSh 183.1 billion while that of services incidental to transport increased by 28.3 per cent to KSh 107.8 billion in the review period. On the other hand, output from the railway transport sub-sector declined by 8.8 per cent from KSh 5.7 billion in 2016 to KSh 5.2 billion in 2017.

Total cargo throughput handled at the Mombasa Port increased by 10.6 per cent to 30.3 million tonnes in 2017. The total number of vessels that docked at the Port increased by 10.0 per cent from 1,607 in 2016 to 1,767 in 2017. At the same time, total import traffic handled grew by 10.8 per cent to 25.6 million tonnes, while export traffic handled expanded by 2.7 per cent to 3.8 million tonnes in 2017. The volume of white petroleum products transported through pipeline rose by 10.8 per cent from 5,557.9 thousand cubic metres in 2016 to 6,155.7 thousand cubic metres in 2017.

The number of passengers travelling by air increased by 3.5 per cent to 10.1 million in 2017. During the review period, the number of domestic and international passengers were 3,991.2 thousand and 6,121.3 thousand respectively. The number of reported road traffic accidents declined by 15.9 per cent to 4,452 in 2017. Similarly, the number of reported casualties from the accidents decreased by 14.8 per cent to 11,215 in 2017.

#### **Information and Communication Technology**

The value of Information and Communication Technology (ICT) output increased by 10.9 per cent from KSh 311.1 billion in 2016 to KSh 345.1 billion in 2017. The number of domestic Short Messaging Services (SMSs) increased by 41.8 per cent to 65.7 billion in 2017. Total domestic telephone calls traffic increased from 42.2 billion minutes in 2016 to 44.1 billion minutes in 2017. The international telephone calls traffic declined from 1,196.5 million minutes in 2016 to 1,056.7 million minutes in 2017. Mobile subscriptions penetration rate per 100 inhabitants increased from 85.9 in 2016 to 91.9 in 2017. Prepaid subscriptions per 100 inhabitants increased to 88.9 in 2017 from 82.8 in 2016. Mobile commerce transactions grew by 85.5 per cent from KSh 1.8 trillion in 2016 to KSh 3.2 trillion in 2017. Total mobile money transfers increased by 8.4 per cent from KSh 3,356 billion in 2016 to KSh 3,638 billion in 2017.

#### **Education and Training**

The National Government total allocation to the Ministry of Education, which includes that to the Teachers Service Commission (TSC) is expected to grow by 31.6 per cent from KSh 315.6 billion in 2016/17 to KSh 415.3 billion in 2017/18. During the review period, total recurrent expenditure is expected to increase by 30.7 per cent to KSh 385.2 billion in 2017/18, while

development expenditure is expected to grow by 43.9 per cent to KSh 30.0 billion in 2017/18.

The total number of educational institutions increased by 5.1 per cent to 90,587 in 2017 with the number of registered Technical Vocational and Education Training (TVET) institutions increasing substantially by 50.9 per cent to 1,962 in the same period. Total enrolment in pre-primary schools rose by 2.9 per cent to 3,293.8 thousand, while that of primary schools increased from 10.3 million in 2016 to 10.4 million in 2017. Enrolment in secondary schools grew by 4.1 per cent to 2,830.8 thousand in 2017. The number of teacher trainees' enrolment went up marginally from 41,707 in 2016 to 42,131 in 2017, while total enrolment in TVET institutions increased by 35.8 per cent to 275,139 in 2017. University student enrolment is expected to decline by 7.7 per cent to 520,893 in 2017/18.

The number of KCPE candidates increased by 4.3 per cent to 993,718 in 2017, while the number of KCSE candidates grew by 6.9 per cent to 610,501 in 2017. The number of candidates who scored a minimum university entry score of C+ (plus) and above decreased by 21.2 per cent to 70,073 in 2017 from 88,929 in 2016. The total number of students in public and private universities and TVET institutions loan applicants increased by 23.5 per cent to 252,928 in 2016/17. During the same period, the total number of loan beneficiaries increased by 24.2 per cent to 244,626. The amount of loans awarded increased by 25.0 per cent from KSh 7.6 billion in 2015/16 to KSh 9.5 billion in 2016/17.

#### **Health and Vital Statistics**

Total expenditure on the health services by National Government is expected to increase by 15.9 per cent to KSh 65.6 billion in 2017/18. Total recurrent expenditure is expected to remain at KSh 29.8 billion while development expenditure is expected to grow by 33.6 per cent to KSh 35.8 billion.

Pneumonia, Malaria and Cancer continued to be the leading causes of registered death. Diseases of the respiratory system followed by Malaria continued to be the leading cause of morbidity. The national Full Immunization Coverage for children below one year decreased to 63.0 per cent in 2017 from 69.0 per cent in 2016. During the review period, the number of registered medical personnel increased by 9.0 per cent to 160,749. The National Hospital Insurance Fund (NHIF) membership grew by 11.1 per cent to 6.8 million in 2016/17. Contributions to NHIF increased from KSh 31,995.7 million to 34,978.2 million during the review period.

#### Governance, Peace and Security

The total number crimes reported to the Police increased by 1.3 per cent to 77,992 in 2017. Stealing, breakings and offences relating to dangerous drugs were more prevalent in 2017 and accounted for 14.9, 7.9 and 7.1 per cent respectively of all crimes reported to the Police. The total number of persons reported to have committed criminal offenses decreased by 2.7 per cent to 73,013 in 2017 with 18.6 per cent being reported to have committed assault while 15.1 and 8.1 per cent were reported to have committed stealing and creating disturbance, respectively. Corruption reports investigated by Ethics and Anti-Corruption Commission and forwarded to the Office of the Director of Public Prosecution (ODPP) decreased 14.4 per cent to 143 in 2017, of which the ODPP approved 89 reports for prosecution. Cases filed in Law Courts declined by 23.6 per cent to 344,180 in 2017, while those disposed of increased by 63.0 per cent to 313,075 in the same period. Daily average prison population grew marginally by 0.2 per cent to 51,021 prisoners in 2017. The number of persons registered as voters increased by 23.3 per cent from 15.9 million in 2016 to 19.6 million in 2017.

Social protection fund allocation to the elderly is expected to increase by 8.6 per cent to KSh 7.9 billion in 2017/18 while the allocation for orphans and vulnerable children (OVCs) is expected to increase by 5.4 per cent to KSh 8.5 billion in 2017/18. Direct cash disbursements to the elderly are expected to increase by 9.5 per cent to KSh 7.3 billion while that of OVCs is expected to increase by 11.5 per cent to KSh 7.9 billion over the same period.

#### Outlook

The global economic recovery experienced in 2017 is expected to continue more strongly in 2018. The recovery is likely to be broad based with growth in most developed and emerging market economies projected to accelerate in 2018. Similarly, growth of Sub-Saharan Africa is expected to improve significantly over the same period. The expectations are against expected favourable global financial conditions, strong world trade and improved business confidence. However, rising international oil prices could hamper economic growth in the non-oil producing countries in particular the developing economies. Moreover, there still exist some risks in the global financial systems that could negatively impact on developed and emerging market economies if they materialize.

In Kenya, the expected political stability and favourable macroeconomic environment are likely to be conducive for acceleration in growth in 2018. The on-going investments in infrastructure, improved business confidence, and strong private consumption are likely to support growth in 2018. Weather forecast points to a possibility of sufficient and well spread long rains in 2018 which is likely to be a major boost for activities in agriculture and electricity and water supply sectors. This will in turn be favourable for the manufacturing sector. However, rising oil prices and slow credit uptake by the private sector are likely to dampen growth in 2018.

Inflation is expected to ease in 2018 supported by lower food prices due to improved agricultural output. The expected strong world trade is likely to increase Kenya's export and therefore supportive of growth. Other macroeconomic indicators are projected to remain stable and supportive of growth in 2018. Overall, factors favourable to growth are likely to more than offset impacts of those against and result to a better economic growth in 2018 compared to that of 2017.

Table 0: Key Economic and Social Indicators, 2013-2017

1	DESCRIPTION	Unit	2013	2014	2015	2016	2017*	
- 1	Population	(Million)	41.8	43.0	44.2	45.4	46.6	
- 1	Growth of GDP at Constant Prices	(Per cent )	5.9	5.4	5.7	5.9	4.9	
	GDP at Market Prices:	(KSh Bn)	4,745.1	5,402.6	6,284.2	7,194.1	7,749.4	
	Total value of petroleum products	(KSh Mn)	291,622.6	335,671.3	226,125.7	197,590.7	265,253.6	
	Trade balance	(KSh Mn)	-911,029.2	-1,081,085.3	-996,511.7		-1,131,494.1	
	Money Supply (M3)	(KSh Bn)	1,996.2	2,330.0	2,658.2	2,764.5	3,010.9	
- 1	Total domestic credit	(KSh Bn)	1,978.5	2,312.2	2,793.9	2,973.2	3,198.3	
- 1	Balance of Payments (current account balance)	(KSh Mn)	-417,019.6	-560,761.1	, i	-375,295.9	-518,943.6	
	Coffee-marketed production	('000 tonnes)	38.4	42.5	32.2	39.7	33.7	
	Tea-marketed production	` ′	432.4	445.1	399.2	473.0	439.9	
	Fresh Horticultural Produce exports	('000 tonnes)	213.8	220.2	238.7	261.1	304.1	
	Maize-marketed production	1	316.4	289.4	295.3	265.8	239.2	
	Wheat-marketed production		184.9	218.0	227.3	215.9	156.9	
	Sugar-cane production	` ′	6,673.7	6,409.9	7,164.8	7,151.7	4,751.6	
	Milk sold centrally	(Mn litres)	523.0	540.0	615.9	648.2	535.7	
	Manufacturing output	(KSh Bn)	1,737.7	1,820.4	1,977.2	2,120.7	2,204.8	
	Construction output	(KSh Bn)	582.9	683.4	804.2	823.9	1,031.5	
	Construction output	` ′	4,266.5	5,196.7		6,310.1	-	
	*	1	4,266.S 3,707.9	3,937.9	5,708.8 4.738.5	5,044.3	5,788.9 5,170.6	
	Petroleum Consumption	(GWh)		,	4,738.5	· ·	5,170.6 8 410.1	
	Electricity consumption	(GWh) (KSh Mn)	6,928.1 93,970.0	7,768.6 87,080.0	7,826.4 84,600.0	8,053.2 99,690.0	8,410.1 119,900.0	
	· ·	(KSIIWIII)	93,970.0	0/,080.0	04,000.0	99,090.0	119,900.0	
	New registration of motor vehicles and cycles	(Number)	222,178.0	318,057.0	247 101 0	212 715 0	202 672 0	
- 1	<i>'</i>	` ′			247,181.0	213,715.0	282,672.0	
	Rail freight	('000 tonnes)	1,444.0	1,509.0	1,542.0	1,380.0	1,147.0	
	Air passengers handled	('000) No. ('000) No.	8,231.6	8,882.0	8,993.2	9,791.9	10,112.5	
	Mobile Subscriptions	` ′	31,309.0	33,632.6	37,716.0	38,982.0	42,815.1	
- 1	Total mobile money transfer	KSh Bn	1,902.0	2,372.0	2,816.0	3,356.0	3,638.0	
- 1	Wage employment	('000) No.	2,283.1	2,370.2	2,478.0	2,553.5	2,656.6	
- 1	Education-primary enrolment	('000) No.	9,857.6	9,951.0	10,090.8	10,279.7	10,403.7	
	Education-secondary enrolment	('000) No.	2,104.3	2,331.7	2,559.0	2,720.6	2,830.8	
	Education-University enrolment	('000) No.	361.4	443.8	510.7	564.5	520.9	
	Education-other post secondary enrolment	(1000) ::				2	a=- :	
	(TIVET+TTC)	('000) No.	148.0	147.8	153.3	202.6	275.1	
	Registered doctors and dentists	, ,	9,727.0	10,239.0	10,699.0	11,525.0	12,127.0	
	GDP Per capita (Current):		113,539.1	125,756.5	142,315.9	158,575.5	166,314.4	
	GDP Per capita (Constant):	` ′	87,260.9	89,430.3	91,988.6	94,788.5	96,799.8	
	Recurrent Revenue and Grants	` ′	1,001.4	1,141.2	1,265.4	1,429.6	1,710.2	
	Total National Government Expenditure	(KSh Bn)	1,533.0	1,953.5	2,047.4	2,283.0	2,777.8	
	Net lending/borrowing (% of GDP) at Current	(D. )		ء نہ				
	Market Prices	(Per cent )	-6.5	-9.9	-8.0	-8.5	-8.4	
	External Debt Service Charge as % of GDP	(Per cent )	1.0	1.8	1.8	1.1	1.4	
- 1	External Debt Service as % of Exports of Goods &	(5						
	Services	(Per cent )	4.8	9.9	10.8	7.8	9.9	2012 1
							2013-	
								Annu
	INDEV NI IMBERG							rate
- 1	INDEX NUMBERS	104.0	100.0	107.0		100 1	char	
	` '			109.9	105.0	111.6	109.6	1.3
	`			113.9	102.5	100.6	109.3	0.0
				73.1	76.0	78.5	75.0	-1.9
	· · · · · · · · · · · · · · · · · · ·			5,113.0	4,040.0	3,186.0	3,712.0	-6.8
45	` ´		l	149.7	159.6	169.7	183.2	6.9
- 1				01.0	02.0	02.0	01.2	Ο.
	Real wages: (June 2009=100)		90.9 46.6	91.2 49.3	93.8 50.2	93.9 49.3	91.2 48.7	0.1

<sup>\*</sup> Provisional



# INTERNATIONAL SCENE

# **International Scene**

Chapter 01

Overview

he global economy recorded a broad-based recovery in 2017 to register the highest growth in post 2008 global financial crisis period. World real GDP is estimated to have expanded by 3.6 per cent in 2017 compared to 3.1 per cent in 2016. The improved performance was mainly supported by a rebound in private and public investments; growth in international trade partly as a result of favourable financing costs; rising profits; improved business and consumer confidence, and waning effects of the fall in oil and commodity prices during 2014 - 2016. This was particularly due to large capital spending and a robust external demand emanating from increased household incomes and business investments in the United States of America and the euro area.

- 1.2. Most advanced economies recorded accelerated growths due to supportive macroeconomic environment, improved labour markets and accommodative financial conditions. Similarly, improved growths were notable in most of the emerging market economies particularly in China where there was strong infrastructure investment. Economies in Sub-Saharan Africa grew by 2.6 per cent in 2017, a significant increase from 1.4 per cent growth registered in 2016. The growth was largely attributable to favourable commodity prices, improved global financing conditions, and reduced inflationary pressures.
- 1.3. The world trade improved significantly in 2017 compared to 2016 mainly attributable to recovery in global manufacturing that emanated from increased capital spending. The international trade is estimated to have increased by 4.8 per cent in 2017 compared to 2.6 per cent growth in 2016. Key drivers of the improved performance in global trade were a growing external demand in Europe, increased trade in electronics in Asia, and a shift in the composition of global demand towards investment.
- 1.4. During the year under review, global inflation rose to 3.1 per cent from 2.8 per cent in 2016 largely occasioned by rise in oil prices. The increase in oil prices was mainly on account of reduced supply by leading oil producers following a decision of the Organization of Petroleum Exporting Countries (OPEC) to limit oil production against a strong demand growth in 2017. Restrained production due to continued geopolitical tensions in the Middle East as well as a modest increase in non-OPEC oil production also contributed to the rise in oil prices. After a significant rise in 2016, global unemployment stabilized at an estimated rate of 5.6 per cent in 2017, corresponding to 192.7 million unemployed persons. This represented an increase in the number of unemployed people by 2.6 million compared to 2016.

#### Regional Economic Analysis

#### Organization for Economic Co-operation and Development

1.5. Table 1.1 presents the macroeconomic performance of economies in the Organization for Economic Co-operation and Development (OECD). Real GDP for OECD member countries improved from 1.8 per cent in 2016 to 2.4 per cent in 2017. This growth was largely a reflection of increased economic activity in the euro area and overall growth in international trade that supplied significant external demand for the member countries, prompting increased private consumption and investment.

1.6. Overall inflation rose to 1.9 per cent in 2017 from 1.5 per cent in 2016 against the target of 2.0 per cent set for OECD member countries. The significant increase in consumer prices was mostly associated with improved labour markets and increased household incomes that prevailed in majority of the member economies. Unemployment rate in the OECD economic bloc dropped from 6.3 per cent in 2016 to 5.8 per cent in 2017. In most member countries, lower unemployment rates were supported by increased share of part-time jobs, rising participation of the female labour force and growing employment in low-paying service sector. The current account balance as a percentage of GDP increased marginally from 0.2 per cent in 2016 to 0.3 per cent in 2017.

#### **Euro Area**

1.7. The Euro Area recorded a broad-based recovery from a 3-year suppressed growth mainly occasioned by the 2014 -16 fall in global oil prices. In 2017, the area registered a real GDP growth of 2.4 per cent compared to 1.8 per cent in 2016. The accelerated growth reflected revitalized private consumption and investment, and improved external demand as a result of the ongoing recovery in global output and trade.

1.8. During the review period, labour market registered marked improvement as reflected by a considerable growth in job creation that exceeded the levels recorded before the 2008 global financial crisis. Unemployment rate was estimated at 9.1 per cent in 2017 compared to 10.0 per cent in 2016, while Inflation rate rose to 1.1 per cent from 0.8 per cent over the same period.

#### **United States of America**

1.9. Economic performance of the United States accelerated to 2.2 per cent in 2017 from 1.5 per cent in 2016. This was largely due to improved household incomes that boosted private consumption and business investment as well as a weakening of the dollar. The increased production in the energy sector, supported by stable oil prices, also boosted the economic growth.

1.10. Labour force participation in the United States increased notably during the period under review. Consequently, unemployment rate dropped from 4.9 per cent in 2016 to 4.4 per cent in 2017. During the review period, inflation rate rose to 1.8 per cent from 1.3 per cent in 2016. The process of managing inflation towards the 2.0 per cent target rate was supported by a further strengthening of the labour market and a growth in household incomes despite the removal of accommodative monetary policy by the Federal Reserve.

#### **United Kingdom**

1.11. The real GDP decelerated in the year under review to post a growth rate of 1.5 per cent compared to 1.8 per cent in 2016. The slowed growth was attributed to weaker aggregate demand and uncertainty surrounding the Brexit negotiations. The current account deficit as a percentage of GDP improved from 5.9 per cent in 2016 to 4.7 per cent in 2017. The improvement was as a result of an increase in exports of goods and weakening domestic demand for imports mainly due to depreciation of the Pound Sterling. Inflation rate rose marginally from 2.0 per cent in 2016 to 2.1 per cent in 2017. The unemployment rate dropped to 4.4 per cent in 2017 from 4.9 per cent in 2016. The decline partly attributed to expansion in self-employment as the demand for a flexible labour market and participation of the older workers grew.

#### Japan

1.12. In 2017, Japan's real GDP expanded by 1.5 per cent compared to 1.0 per cent in 2016. The expansion was largely supported by increased domestic investment buoyed by a long regime

of low interest rates and a rebound in international trade that started in mid-2016. Growing labour shortages continued to tighten labour market conditions with unemployment rate declining to 2.8 per cent in 2017 from 3.1 per cent in 2016. Consequently, the economy made notable gains in employment that boosted growth in private consumption to the highest level since the 2014 consumption tax hike.

1.13. Monetary policy remained unchanged as the Bank of Japan continued to calibrate bond purchases as part of its efforts to push inflation towards the 2.0 per cent set target. However, the country experienced a deflation of 0.3 per cent in 2017 compared to an inflation of 0.3 per cent in 2016.

#### Germany

1.14. Real GDP in Germany expanded by 2.5 per cent in 2017 compared to 1.9 per cent in 2016. This growth was mainly driven by increased external demand emanating from vibrant activities in the euro area that helped to boost exports and private investment. The improved level of economic activity was also supported by a notable growth in the construction sector that resulted from an increased housing demand. The increase in demand for housing was occasioned by higher disposable incomes and low interest rates that prevailed in 2017 and provision of housing for immigrants. Unemployment rate dropped to 3.7 per cent in 2017 from 4.2 per cent in 2016, partly due to increased investment across sectors.

Table 1.1: Key Economic Indicators and Projections for Selected OECD Countries, 2015 - 2019

	2015	2016 <sup>+</sup>	2017*	2018 <sup>1</sup>	2019 <sup>1</sup>			
World Real GDP Growth**	3.3	3.1	3.6	3.7	3.6			
World Trade Growth <sup>2</sup>	2.7	2.6	4.8	4.1	4.0			
Real GDP Growth	Percentage Change							
United States of America	2.9	1.5	2.2	2.5	2.1			
United Kingdom	2.3	1.8	1.5	1.2	1.1			
Japan	1.1	1.0	1.5	1.2	1.0			
Germany	1.5	1.9	2.5	2.3	1.9			
Euro Area	1.5	1.8	2.4	2.1	1.9			
Total OECD	2.4	1.8	2.4	2.4	2.			
Inflation (GDP Deflator)	Percentage Change							
United States of America	1.1	1.3	1.8	2.1	2.2			
United Kingdom	0.5	2.0	2.1	1.9	2.0			
Japan	2.1	0.3	-0.3	0.2	1.0			
Germany	2.0	1.3	1.5	1.6	1.8			
Euro Area	1.4	0.8	1.1	1.5	1.7			
Total OECD	1.5	1.5	1.9	2.1	2.			
Current Account Balance as % of GDP								
United States of America	-2.4	-2.4	-2.4	-2.6	-2.			
United Kingdom	-5.2	-5.9	-4.7	-4.4	-3.			
Japan	3.1	3.7	3.9	3.9	4.1			
Germany	8.6	8.3	7.9	8.0	7.9			
Euro Area	3.7	3.6	3.4	3.4	3.4			
Total OECD	0.2	0.2	0.3	0.2	0.3			
Unemployment Rate		Percentage Change						
United States of America	5.3	4.9	4.4	3.9	3.7			
United Kingdom	5.4	4.9	4.4	4.4	4.6			
Japan	3.4	3.1	2.8	2.8	2.8			
Germany	4.6	4.2	3.7	3.5	3.4			
Euro Area	10.9	10.0	9.1	8.5	8.0			
Total OECD	6.8	6.3	5.8	5.5	5.3			

Source: OECD Economic Outlook No.102

#### **Assumptions Underlying Projections**

The cut-off date for information used in the projection is 28<sup>th</sup> November 2017.

The projections assume unchanged exchange rates from those prevailing on 25<sup>th</sup> October 2017.

<sup>\*</sup> Provisional

<sup>\*\*</sup> World Economic outlook January 2018

<sup>+</sup> Revised

<sup>&</sup>lt;sup>1</sup> Projections

<sup>&</sup>lt;sup>2</sup> Refer to arithmetic average of world merchandise import and export volumes.

#### Brazil, Russia, India, Indonesia, China and South Africa

1.15. Emerging economies comprising of Brazil, Russia, India, Indonesia, China and South Africa (BRIICS) posted an average real GDP growth of 3.7 per cent in 2017 compared to a growth of 2.5 per cent in 2016 as shown in Table 1.2. The improved growth was buoyed by recovery in the economic performances of Brazil and Russia that had contracted in 2016. The Brazilian economy was estimated to have expanded by 0.7 per cent in 2017 compared to a contraction of 3.6 per cent in 2016. The rebound was supported by a recovery in domestic demand attributed to easing of monetary conditions. Russia's real GDP grew by 1.8 per cent in 2017 compared to a contraction of 0.2 per cent in 2016. The growth was bolstered by improved oil prices, fiscal stimulus and banking sector support.

1.16. In China, real GDP grew by 6.8 per cent in 2017 compared to a growth of 6.7 per cent in 2016. The growth was attributed to fiscal support and recovery of exports. Inflation rate in China eased to 1.8 per cent in 2017 from 2.0 per cent in 2016 on account of weak food prices. The Indian economy recorded a decelerated real GDP growth of 6.7 per cent during the year under review compared to a growth of 7.1 per cent in 2016. The deceleration in growth was partly attributed to roll out of goods and services tax aimed at shifting firms from informal to formal sector, and disruption from currency exchange initiative. Inflation rate eased to 3.8 per cent in 2017 on account of lower food prices. In South Africa, good rainfall received during the review period led to improved performance of the agriculture sector resulting in improvement in real GDP growth of 0.9 per cent in 2017 from 0.3 per cent in 2016.

#### **Association of South Eastern Asia Nations**

1.17. The real GDP of the five member Association of South Eastern Asia Nations (ASEAN-5) grew by 5.2 per cent in 2017 from 4.9 per cent in 2016. The growth was underpinned by strong global demand that supported exports from the region. The current account surplus as a percentage of GDP narrowed to 1.6 per cent in the year under review compared to 2.1 per cent in 2016. The economic growth of Philippines slowed to 6.6 per cent in 2017 from 6.9per cent in 2016. Indonesia's economy expanded by 5.2 per cent in 2017 compared to a growth of 5.0 per cent in 2016 supported by a strong external demand and expansionary fiscal policy. The real GDP of Malaysia grew by 5.4 per cent in 2017 compared to a growth of 4.2 per cent in 2016 attributable to increased domestic and external demand. Strong private consumption of goods and services in Thailand resulted in a real GDP growth of 3.7 per cent in 2017 compared to 3.2 per cent in 2016.

#### Sub-Saharan Africa

1.18. Real GDP growth in Sub-Saharan Africa grew by 2.6 per cent in 2017 compared to 1.4 per cent in 2016. The growth was driven by increased oil and agricultural production in Nigeria and diminishing effect of drought in Eastern and Southern Africa, coupled with favourable external environment. Inflationary pressures dropped to 11.0 per cent in 2017 from 11.3 per cent in 2016 on account of low food prices. The current account deficit as a percentage of GDP for the region narrowed to 3.4 per cent during the review period from 4.2 per cent in 2016. The improvement in the current account balances in Sub-Saharan Africa was partly attributed to increased oil production in Angola and Nigeria.

Table 1.2: Real GDP Growth, Inflation and Current Account Balances for Selected Regions and Countries, 2015-2018

	D <sub>0</sub>	al CDP C	rowth Ra	tos		Infla	tion		Cu	rrent Acc	ount Bala	nce
	Re	ai GDP G	row III Ka				шоп			(Per cen	t of GDP)	
	2015	2016 <sup>+</sup>	2017*	2018 <sup>1</sup>	2015	2016 <sup>+</sup>	2017*	2018 <sup>1</sup>	2015	2016 <sup>+</sup>	2017*	2018 <sup>1</sup>
BRIICS	2.4	2.5	<b>3.</b> 7	3.9	7.0	5.4	3.8	4.1	-0.5	-0.6	-0.5	-0.7
Brazil	-3.8	-3.6	0.7	1.5	9.0	8.7	3.7	4.0	-3.3	-1.3	-1.4	-1.8
Russia	-2.8	-0.2	1.8	1.7	15.5	7.0	4.2	3.9	5.0	2.0	2.8	3.2
India	8.0	7.1	6.7	7.4	4.9	4.5	3.8	4.9	-1.1	-0.7	-1.4	-1.5
Indonesia	4.9	5.0	5.2	5.3	6.4	3.5	4.0	3.9	-2.0	-1.8	-1.7	-1.8
China	6.9	6.7	6.8	6.6	1.4	2.0	1.8	2.4	2.7	1.7	1.4	1.2
South Africa	1.3	0.3	0.9	0.9	4.6	6.3	5.4	5.3	-4.4	-3.3	-2.9	-3.3
Sub-Saharan Africa	3.4	1.4	2.6	3.4	7.0	11.3	11.0	9.5	-6.1	-4.2	-3.4	-3.6
EAC-5	6.1	5.4	5.4	5.9	5.7	5.7	6.7	5.5	-8.0	-5.8	-6.2	<b>-7.2</b>
Kenya	5.7	5.9	4.9	5.5	6.6	6.3	8.0	5.2	-6.8	-5.2	-7.0	-7.0
Tanzania	7.0	7.0	6.5	6.8	5.6	5.2	5.4	5.0	-8.5	-5.6	-5.6	-6.5
Uganda	5.7	2.3	4.4	5.2	5.4	5.5	5.8	5.6	-7.1	-4.3	-5.6	-7.2
Rwanda	8.9	5.9	6.2	6.8	2.5	5.7	7.1	6.0	-13.4	-14.4	-10.2	-11.2
Burun di	-4.0	-1.0	0.0	0.1	5.6	5.5	18.0	20.2	-17.7	-13.1	-12.4	-11.8
SADC	2.7	1.5	2.2	2.5	5.5	10.4	10.3	9.0	-6.4	-4.4	-4.1	-4.5
WAEMU	6.2	6.3	6.4	6.4	2.7	1.3	1.0	1.3	-5.7	-5.3	-6.2	-5.7
CEMAC	1.9	-0.6	0.3	2.1	2.7	1.3	1.0	1.3	-12.2	-13.9	-6.5	-4.0
ASEAN-5	4.9	4.9	5.2	5.2	3.3	2.4	3.3	3.1	1.5	2.1	1.6	1.1
Indonesia	4.9	5.0	5.2	5.3	6.4	3.5	4.0	3.9	-2.0	-1.8	-1.7	-1.8
Malaysia	5.0	4.2	5.4	4.8	2.1	2.1	3.8	2.9	3.0	2.4	2.4	2.2
Philippines	6.1	6.9	6.6	6.7	1.4	1.8	3.1	3.0	2.5	0.2	-0.1	-0.3
Thailand	2.9	3.2	3.7	3.5	-0.9	0.2	0.6	1.0	8.1	11.5	10.1	8.1
Vietnam	6.7	6.2	6.3	6.3	0.6	2.7	4.4	4.0	-0.1	4.1	1.3	1.4
Maghreb	2.8	2.2	5.4	3.8	4.7	5.4	5.4	5.4	-14.4	-12.1	-8.5	-5.6
Algeria	3.7	3.3	1.5	0.8	4.8	6.4	5.5	4.4	-16.5	-16.5	-13.0	-10.8
Libya	-10.3	-3.0	55.1	31.2	9.8	27.1	32.8	32.1	-52.6	-22.4	1.8	9.8
Mauritania	0.9	1.7	3.8	3.0	0.5	1.5	2.1	3.7	-19.7	-14.9	-14.2	-9.6
Morocco	4.6	1.2	4.8	3.0	1.5	1.6	0.9	1.6	-2.1	-4.4	-4.0	-2.9
Tunisia	1.1	1.0	2.3	3.0	4.9	3.7	4.5	4.4	-8.9	-9.0	-8.7	-8.4
Mashreq <sup>2</sup>	3.9	3.9	3.8	4.2	9.1	8.7	20.7	18.7	-6.3	-7.8	-8.2	-6.4
Egypt	4.4	4.3	4.1	4.5	11.0	10.2	23.5	21.3	-3.6	-6.0	-5.9	-3.8
Jordan	2.4	2.0	2.3	2.5	-0.9	-0.8	3.3	1.5	-9.1	-9.3	-8.4	-8.3
Leban on	0.8	1.0	1.5	2.0	-3.7	-0.8	3.1	2.5	-18.7	-18.6	-18.0	-16.8

 $Source: World \ Economic \ Outlook, October \ 2017 \ and \ Regional \ Economic \ Outlook \ - \ Various \ Issues \ except \ Kenya$ 

Southern African Development Community (SADC) includes; Angola, Botswana , Democratic Republic of Congo, Lesotho, Madagascar, Malawi,

 $Mauritius, Mozambique, Namibia, Seychelles, South Africa, Swaziland, United Republic of Tanzania, Zambia\ and\ Zimbabwe.$ 

West African Economic and Monetary Union (WAEMU) includes; Benin, Burkina Faso, Côte d'Ivoire, Guinea Bissau, Mali, Niger, Senegal, and Togo. Economic and Monetary Union of Central Africa (CEMAC) and includes; Cameroon, Chad, Central African Republic, Equatorial Guinea, Gabon, and Republic of Congo

 $<sup>* \</sup> Provisional \\$ 

<sup>+</sup> Revised

<sup>&</sup>lt;sup>1</sup> Projections

 $<sup>^2\,\</sup>mathrm{Excludes}$  Syria due to unavailability of data

#### **East African Community**

1.19. During the year under review, real GDP in the five member East Africa Community (EAC-5) remained unchanged at 5.4 per cent. The real GDP of Rwanda and Tanzania are estimated to have recorded the fastest growth of 6.2 and 6.5 per cent, respectively, in 2017. The community's current account deficit as a percentage of GDP widened to 6.2 per cent in 2017 from 5.8 in 2016, while inflation rate surged to 6.7 per cent in 2017 from 5.7 per cent in 2016, on account of rising food and oil prices.

#### **Southern African Development Community**

1.20. Economies in the Southern African Development Community (SADC) grew at 2.2 per cent in 2017 compared to 1.5 per cent in 2016. The growth was anchored on favourable weather conditions that supported agricultural production. The bloc's inflation rate stood at 10.3 per cent in 2017 from 10.4 per cent in 2016, while the current account deficit as a percentage of GDP improved to 4.1 per cent from 4.4 per cent over the same period.

#### Maghreb

1.21. The real GDP of Maghreb countries grew by 5.4 per cent in 2017 compared to 2.2 per cent in 2016. The growth was mainly attributed to a rebound in Libya's economy which grew by 55.1 per cent in 2017 compared to a contraction of 3.0 per cent in 2016. The growth in Libya was mainly driven by increased oil production. In Morocco, strong recovery in agriculture production resulted in real GDP growth of 4.8 per cent in 2017. Tunisia's economy expanded by 2.3 per cent in 2017 compared to a growth of 1.0 per cent in 2016 buoyed by recovery in the agriculture and manufacturing sectors. The Maghreb's bloc current account deficit narrowed to 8.5 per cent in 2017 from 12.1 per cent in 2016 mainly due to improvement in net exports. Receipt from oil exports improved Libya's current account balance from a deficit of 22.4 per cent in 2016 to a surplus of 1.8 per cent in 2017.

#### Mashreq

1.22. The Mashreq recorded a decelerated growth of 3.8 per cent in 2017 compared to a growth of 3.9 per cent in 2016. This was mainly due to a deceleration of Egypt's growth to 4.1 per cent in 2017 compared to a growth of 4.3 per cent in 2016. In Jordan, strong mining sector and increase in export of goods and services supported expansion in economic activities resulting to a growth of 2.3 per cent in 2017 from 2.0 per cent in 2016. Higher food prices coupled with the effects of currency float in Egypt, led to a surge in inflation rate to 23.5 per cent in 2017 from 10.2 per cent in 2016. The Mashreq's bloc current account deficit widened as a percentage of GDP to 8.2 per cent in 2017 from 7.8 per cent in 2016. In Egypt, floating of exchange rate, lifting of foreign currency exchange and implementation of measures to attract foreign direct investors resulted in marginal improvement of current account deficit as a percentage of GDP to 5.9 per cent in 2017.

#### **WAEMU**

1.23. In the metals-exporting economies in the West African Economic and Monetary Union (WAEMU), economic growth was broadly stable supported by uptake in mining output and rising metal prices. Growth was however, slowed in some member countries due to lower cocoa prices. Real GDP is estimated to have grown by 6.4 per cent during the period under review compared to 6.3 per cent in 2016. Strong growth in imports resulted in widening of current account deficit as percentage of GDP from 5.3 per cent in 2016 to 6.2 per cent in 2017. During the period under review, inflation was estimated at 1.0 per cent compared to 1.3 per cent recorded in 2016.

#### **CEMAC**

1.24. Among the economies in Central African Economic and Monetary Community (CEMAC), real GDP grew by 0.3 per cent in 2017 compared to a decline of 0.6 per cent in 2016. The improvement in growth was mainly due to improvement in global oil prices. Current account deficit as percentage of GDP narrowed to 6.5 per cent in 2017 compared to 13.9 per cent in 2016. This is attributable to sluggish growth in imports that improved terms of trade. In 2017, inflation eased to 1.0 per cent from 1.3 per cent in 2016 following increased oil prices that lowered exchange rate pressures.

Outlook 1.25. On the global perspective, real GDP growth is projected to grow by 3.7 per cent in 2018. This will be supported by resilient growth in advanced economies as well as the effect of tax reforms in the United States of America. The reduction of corporate taxes and allowance of full investment expenditure coupled with fiscal stimulus in United States of America are projected to increase economic growth by 2.5 per cent in 2018.

> 1.26. In the OECD, real GDP is projected to grow by 2.4 per cent in 2018 while growth in the Euro Area is projected to slow down to 2.1 per cent over the same period. Real GDP growth in the emerging economies of Brazil, Russia, India, and China is projected to grow by 3.9 per cent in 2018. Growth in India is expected to grow to 7.4 per cent in 2018 supported by strong private consumption. Deceleration in credit growth is projected to slow down economic growth in China to 6.6 per cent in 2018.

> 1.27. Real GDP growth in Sub-Saharan Africa is projected to rise to 3.4 per cent in 2018 on account of strong domestic demand. Recovery of oil production coupled with improvement in the supply of electricity is expected to propel Nigeria's economy to grow by 2.5 per cent in 2018. In EAC countries, real GDP is projected at 5.4 per cent in 2018.

> 1.28. Real GDP growth in ASEAN~5 countries is projected to expand by 5.2 per cent in 2018. In Maghreb, real GDP growth is expected to slow down to 3.8 per cent in 2018. Real GDP in the Mashreq is projected to grow by 4.2 per cent in 2018 as external demand grows and business and consumer confidence are expected to be boosted by reforms.



# **DOMESTIC ECONOMY**

# **Economic Performance**

Chapter 02

Overview

Provisional estimates of Gross Domestic Product (GDP) showed that Kenya's economy expanded by 4.9 per cent in 2017 compared to a revised growth of 5.9 per cent in 2016. The slowdown in the performance of the economy was partly attributable to uncertainty associated with a prolonged electioneering period coupled with effects of adverse weather conditions. A widespread drought experienced during the fourth quarter of 2016 and somewhat suppressed long rains in 2017, negatively impacted on crop production and rearing of animals as well as generation of hydro-electric power. A slowdown in credit uptake to the private sector also contributed to the deceleration in growth during the period under review.

- 2.2. Performance across the various sectors of the economy varied widely, with Accommodation and Food services; Information and Communication Technology; Education; Wholesale and Retail trade; and Public Administration registering accelerated growths in 2017 compared to 2016. On the other hand, growths in Manufacturing; Agriculture, Forestry and Fishing; and Financial and Insurance decelerated significantly over the same period and therefore dampened the overall growth in 2017.
- 2.3. Generally, key macroeconomic indicators largely remained stable and therefore supportive of growth in 2017. Weighted interest rates on commercial banks loans and advances declined to 13.64 per cent in December 2017 from 13.69 per cent in December 2016. The Central Bank Rate (CBR) was maintained at 10.00 per cent throughout the year. In the money market, the Kenyan Shilling strengthened against most of the major trading currencies but weakened against the Euro and the US Dollar in 2017. There was a moderate buildup in inflationary pressures mainly due to significant increase in oil and food prices during the year under review. Consequently, inflation rose from 6.3 per cent in 2016 to 8.0 per cent in 2017 thereby overshooting the Central Bank's upper limit of 7.5 per cent.
- 2.4. The current account deficit widened from KSh 375.3 billion in 2016 to a deficit of KSh 518.9 billion in 2017 on account of significant growth of imports against a slow growth of exports. The Nairobi Securities Exchange (NSE) 20-Share index rose to 3,712 points in December 2017 from 3,186 points in December 2016.
- 2.5. Domestic prices of petroleum products rose significantly in 2017 in response to a 24.6 per cent rise in the international oil prices. In particular, wholesale prices of motor gasoline premium and light diesel increased by 9.7 per cent and 8.7 per cent, respectively, in 2017. The increase in oil prices was mainly on account of reduced global supply against a strong demand growth during the year under review.

## **Sectoral Analysis**

#### Sectoral Agriculture, Forestry and Fishing

- 2.6. Agriculture, Forestry and Fishing sector posted a decelerated growth of 1.6 per cent in 2017 compared to a revised growth of 4.7 per cent in 2016. The period under review was characterised by depressed long rains and early cessation of short rains. Consequently, the unfavourable weather conditions considerably suppressed production of key crops and adversely affected production in the livestock sub-sector.
- 2.7. Scarcity of key food crops and in particular maize and some vegetables was experienced in 2017 as evidenced by significant increases in their respective prices. The poor performance of the sector was exacerbated by marked decline in production of tea and coffee by 7.0 per cent and 11.5 per cent, respectively. Similarly, activity of sugarcane farming and growing of sisal were notably lower than the 2016 levels, further curtailing potential growth in the sector. In the dairy sub-sector, the quantity of milk delivered to processors declined from 648.2 million litres in 2016 to 535.7 million litres in 2017.
- 2.8. However, despite the general underperformance of the sector, production of food crops such as potatoes, beans and some cereals posted relatively improved performance and somehow mitigated the impact of the decline in the production of the other crops, thereby anchoring the growth in 2017. Similarly, growth in the sector was supported by notable increases in production of cut flowers, fruits and vegetables whose exports grew by 19.7, 16.8 and 10.7, per cent, respectively, in 2017. This translated to a significant increase in the value of export of horticultural produce from KSh 101.5 billion in 2016 to KSh 115.3 billion in 2017.

#### Manufacturing

- 2.9. The manufacturing sector posted a marginal growth of 0.2 per cent in 2017 compared to a revised growth of 2.7 per cent in 2016. The slowed growth was partly attributable to uncertainties related to the 2017 general elections, high cost of inputs and stiff competition from cheap imports. Generally, most activities in the sector recorded significant decline leading to the slowdown experienced in 2017. The volume of food products manufactured declined by 10.8 per cent in 2017 compared to 1.9 per cent growth in 2016.
- 2.10. The sector's performance in 2017 was negatively affected by reduced activity in agroprocessing that emanated from constrained domestic supply of agricultural raw materials. This was particularly so in the processing of tea and coffee that recorded significant decline during the period under review. Nevertheless, there was improved performance in some activities that somewhat supported growth during the period under review. In the food subsector, notable growths were realised in the manufacture of grain mill products (8.3%), bakery products (8.1%) and animal feeds (8.6%). Similarly, some activities in the manufacture of nonfood products recorded marginal gains during the review period though their proportionate contribution to the sector was significantly low. The quantities of apparels, basic metals, and paper and paper products manufactured in 2017 grew by 5.6, 4.0 and 4.2 per cent, respectively.

#### **Transportation and Storage**

2.11. Transportation and storage sector remained vibrant during the review period despite its growth slowing to 7.3 per cent in 2017 compared to a 7.8 per cent growth in 2016. The slower growth was mainly on account of underperformance in land transportation, particularly that of freight. Performance of land freight dropped from 5.9 per cent in 2016 to 1.9 per cent in 2017 mainly due to depressed volumes of transportation of freight through road and railway. During the period under review, the number of newly registered lorries/trucks, pick-ups and heavy vans commonly used to transport goods declined by 22.5 per cent. The suppressed

performance of land freight was reflected by a 9.4 per cent decline in consumption of light diesel in 2017. In addition, a significant rise in prices of petroleum products during the review period also dampened the sector's growth. The average price of gas oil increased from KSh 77.83 in 2016 to KSh 89.03 in 2017 while that of motor gasoline rose by 11.1 per cent.

2.12. On the other hand, performance in other sub-sectors was comparatively better in 2017. Total port throughput grew by 10.6 per cent in 2017 while the number of ships that docked at the port of Mombasa increased from 1,607 in 2016 to 1,767 in 2017. Similarly, the volume of petroleum products transported through pipeline increased by 10.8 per cent in 2017 compared to a 9.7 per cent growth recorded in 2016.

#### **Information and Communication**

2.13 The Information and Communication sector expanded by 11.0 per cent in 2017 compared to 9.7 per cent in 2016. The exemplary performance was mainly supported by expansion in the digital economy through mobile telephony, e-commerce, online training, tax administration, among others. Growth in the sector was principally driven by improved performance in the telecommunications sub-sector, which rose by 12.7 per cent in 2017. The enhanced performance in the telecommunications activity was mainly on account of a notable increase in the volume of call traffic from 42.2 billion minutes in 2016 to 44.1 billion minutes in 2017. Similarly, the number of Short Message Service (SMS) rose significantly to stand at 65.7 billion during the review period. Mobile money transfers rose significantly to KSh 3.6 trillion in 2017 while the number of mobile commerce transactions increased almost two-fold. The sector's growth was also supported by increased use of the Internet as evidenced by a 6.5 per cent increase in utilization of available bandwidth.

#### **Financial and Insurance Activities**

2.14. In 2017, the sector's growth decelerated to 3.1 per cent, mainly on account of significantly constrained growth in financial activities, despite better performance in insurance activities. Performance of activities of the financial sub-sector decelerated significantly from a growth of 6.9 per cent in 2016 to 2.6 per cent in 2017. The overall effect of the decline in financial activities was partially compensated by 6.5 per cent growth of the insurance sub-sector in 2017 compared to 5.2 per cent realized in 2016. The insurance sub-sector's performance was buoyed by a significant growth in gross premium income during the period under review. A drop in the growth of credit to the private sector from 4.1 per cent in 2016 to 2.4 per cent in 2017 reflected the subdual of performance in the financial sub-sector. However, total domestic credit rose by 7.9 per cent compared to 6.4 per cent in 2016, primarily due to a 12.1 per cent growth in credit to the national government. During the review period, extended broad money supply (M3) as at December 2017 grew by 8.9 per cent compared to 3.6 per cent in the same period of 2016.

#### **Electricity Supply**

2.15. Growth of gross value added of electricity supply decelerated to 6.9 per cent from a revised growth of 9.5 per cent in 2016. The slowdown in performance of the sector in the period under review was mainly attributable to depressed generation of hydro-electricity due to failure of short rains in 2016 and reduced long rains in 2017. There was a considerable increase in generation of electricity from thermal sources that are highly input intensive, and therefore increased the sector's production costs. Hydro generation declined by 29.9 per cent from 3,959.9 GWh in 2016 to 2,776.8 GWh in 2017. On the other hand, thermal generation increased significantly (72.3%) from 1,470.9 GWh in 2016 to 2,534.1 GWh in 2017. Renewable energy sources have continued to gain prominence as important sources of electricity supply. During the period under review, growth of the sector was supported by notable improvements in the generation of electricity using wind (8.7%) and geothermal sources (6.1%).

#### Construction

2.16 Activity in the construction sector remained robust during the review period though the growth decelerated for the second year in a row to stand at 8.6 per cent in 2017. Cement consumption decreased by 8.2 per cent from 6.3 million tonnes in 2016 to 5.8 million tonnes in 2017, an indication of a slowdown in growth of construction activity compared to the previous year. The sector continued to benefit from public investment in infrastructure such as roads and railways, as well as heightened activity in the construction of public and private buildings. The sector's growth was also driven by intensified civil works that led to a significant increase in the length of bitumen road, from 14.5 thousand kilometers in 2016 to 20.6 thousand kilometers in 2017. Similarly, the length of road under earth/gravel almost doubled in the year under review, a further reflection of gains realized in the sector.

#### **Accommodation and Food Services**

2.17. The sector remained on a recovery path to grow by 14.7 per cent in 2017 compared to a revised growth of 13.3 per cent in 2016. This growth was despite a backdrop of uncertainty surrounding the general elections and negative travel advisories issued by some countries. The improved performance was mainly attributable to enhanced security and concerted efforts instituted by the government to market the country as a favourite tourist destination. Key indicators for the sector pointed to a robust performance during the period under review. Earnings from tourism activities increased markedly (20.3%) from KSh 99.7 billion in 2016 to KSh 119.9 billion in 2017. The number of international visitor arrivals grew by 8.1 per cent to 1,448.8 thousand in 2017 from 1,339.7 thousand in 2016. This resulted to an increase in hotel bed-nights occupancy from 6,448.5 thousand in 2016 to 7,174.2 thousand in 2017.

2.18. Tables 2.1 and Table 2.2 present details on the Gross Domestic Product (GDP) at current prices and, sectoral contribution to GDP from 2013-2017. The nominal GDP is estimated to have expanded from KSh 7,194.1 billion in 2016 to KSh 7,749.4 billion in 2017. There were no significant changes in the structure of the economy in terms of sectoral contribution to GDP except for Agriculture, Forestry and Fishing, and manufacturing that shed a combined share of 1.3 per cent. Other notable changes in contribution to GDP included those of Construction and Wholesale and Retail, which increased by 0.8 and 0.3 percentage points, respectively, in 2017.

Table 2.1: Gross Domestic Product by Activity, 2013 - 2017

Current Prices, KSh Million 2014 2015 2016+ 2017\* 2013 Agriculture, forestry and fishing...... 1,254,760 1,483,078 1,897,347 2,311,862 2,442,371 Growing of crops..... 875,165 1,066,344 1,446,376 1,830,608 1,927,867 Animal production..... 249,117 275,082 293,603 321,628 Support activities to agriculture..... 28,932 30,770 37,371 33,510 38,857 Forestry & logging..... 67,230 72,148 79,697 91,084 99,511 Fishing & aquaculture..... 34,315 38,732 40,300 35,033 36,647 54.584 59,130 58,459 Mining and quarrying..... 40.742 44,936 Manufacturing..... 506,612 537,999 588,896 653,839 648,397 Manufacture of food, beverages and tobacco..... 201,269 207,730 230,909 260,818 270,142 Other manufacturing and repair and installation..... 305,343 330,269 357,987 393,021 378,255 Electricity supply ..... 53,901 55,190 89,358 131,565 140,708 42,102 Water supply; sewerage, waste management ..... 40,442 46,814 50,418 55,989 307,563 360,806 Construction..... 213,565 262,090 452,439 Wholesale and retail trade; repairs..... 380,646 431,985 473,395 524,303 588,540 Transportation and storage..... 462,457 510,488 561,757 599,438 378,525 287,053 351,796 379,320 404,231 415,848 Land transport ..... Air transport including support services..... 17,522 16,960 18,896 27,416 31,954 All other transport including postal and courier activities..... 73,950 93,700 112,272 130,110 151,636 Accommodation and food service activities..... 58,037 49,151 49,356 51,565 60,824 Information and communication ..... 68,478 65,592 91,200 103,807 109,388 Telecommunications..... 31,937 27,647 52,410 61,579 66,233 Publishing, broadcasting, other IT and information activities 37,945 38,790 36,541 42,228 43,155 Financial and insurance activities..... 313,120 366,764 423,956 505,331 577,824 Financial activities 241,478 261,282 326,609 395,054 466,341 Insurance activities..... 97,347 71,643 105,483 110,277 111,482 375,588 417,829 474,318 532,121 575,347 Real estate..... Professional, scientific and technical activities..... 48,349 51,992 55,812 61,009 65.178 Administrative and support service activities..... 57,312 61,067 63,849 67,750 72,067 Public administration and defence..... 208,647 243,526 267,645 299,005 330,899 Education ..... 251,958 279,543 308,128 308,135 319,445 Pre-primary and Primary education..... 115,460 126,156 137,521 137,002 159,293 General secondary education..... 87,370 96,581 107,462 96,604 82,550 Higher and other education..... 49,127 56,807 63,145 74,529 77,602 Human health and social work activities..... 75,157 91,969 108,023 119,561 126,311 Arts, entertainment and recreation..... 7,490 8,045 8,864 6,636 8,969 Other service activities..... 30,109 34,506 39,486 43,128 48,270 Activities of households as employers;..... 30,625 32,370 25,462 28,090 34,075 Financial Intermediation Services Indirectly Measured (FISIM) 124,136 -134,588 163,306 200,667 -228,918 All economic activities 4,263,911 4,882,769 5,725,580 6,585,658 7,086,020 Taxes on products..... 481,179 519,878 558,605 608,489 663,406 GDP at market prices 4,745,090 5,402,647 6,284,185 7,194,147 7,749,426

<sup>\*</sup> Provisional

<sup>+</sup> Revised

Table 2.2: Gross Domestic Product by Activity

	Perce	ntage	Contril	bution t	o GDP
Industry	2013	2014	2015+	2016+	2017*
Agriculture, forestry and fishing	26.4	27.5	30.2	32.1	31.5
Growing of crops	18.4	19.7	23.0	25.4	24.9
Animal production	5.3	5.1	4.7	4.5	4.4
Support activities to agriculture	0.6	0.6	0.6	0.5	0.5
Forestry & logging	1.4	1.3	1.3	1.3	1.3
Fishing & aquaculture	0.7	0.7	0.6	0.5	0.5
Mining and quarrying	0.9	0.8	0.9	0.8	0.8
Manufacturing	10.7	10.0	9.4	9.1	8.4
Manufacture of food, beverages and tobacco	4.2	3.8	3.7	3.6	3.5
Other manufacturing and repair and installation	6.4	6.1	5.7	5.5	4.9
Electricity supply	1.1	1.0	1.4	1.8	1.8
Water supply; sewerage, waste management	0.9	0.8	0.7	0.7	0.7
Construction	4.5	4.9	4.9	5.0	5.8
Wholesale and retail trade; repairs	8.0	8.0	7.5	7.3	7.6
Transportation and storage	8.0	8.6	8.1	7.8	7.7
Land transport	6.0	6.5	6.0	5.6	5.4
Air transport including support services	0.4	0.3	0.3	0.4	0.4
All other transport including postal and courier activities	1.6	1.7	1.8	1.8	2.0
Accommodation and food service activities	1.2	0.9	0.8	0.7	0.8
Information and communication	1.4	1.2	1.5	1.4	1.4
Telecommunications	0.7	0.5	0.8	0.9	0.9
Publishing, broadcasting, other IT and information activities	0.8	0.7	0.6	0.6	0.6
Financial and insurance activities	6.6	6.8	6.7	7.0	7.5
Financial activities	5.1	4.8	5.2	5.5	6.0
Insurance activities	1.5	2.0	1.5	1.5	1.4
Real estate	7.9	7.7	7.5	7.4	7.4
Professional, scientific and technical activities	1.0	1.0	0.9	0.8	0.8
Administrative and support service activities	1.2	1.1	1.0	0.9	0.9
Public administration and defence	4.4	4.5	4.3	4.2	4.3
Education	5.3	5.2	4.9	4.3	4.1
Primary education	2.4	2.3	2.2	1.9	2.1
General secondary education	1.8	1.8	1.7	1.3	1.1
Higher and other education	1.0	1.1	1.0	1.0	1.0
Human health and social work activities	1.6	1.7	1.7	1.7	1.6
Arts, entertainment and recreation	0.1	0.1	0.1	0.1	0.1
Other service activities	0.1	0.6	0.6	0.6	0.6
Activities of households as employers;	0.5	0.5	0.5	0.4	0.4
Financial Intermediation Services Indirectly Measured (FISIM)	-2.6	-2.5	-2.6	-2.8	-3.0
All economic activities	89.9	90.4	91.1	91.5	91.4
Taxes on products	10.1	9.6	8.9	8.5	8.6
GDP at market prices		100.0		100.0	100.0

GDP at market prices
\* Provisional

2.19. Details of GDP valued at 2009 prices and the corresponding growth rates from 2013 to 2017 are presented in Table 2.3 and Table 2.4, respectively. Gross domestic product in real terms increased from KSh 4,300.3 billion in 2016 to KSh 4,510.4 billion in 2017. Real GDP grew from a revised growth of 5.9 per cent registered in 2016 to stand at 4.9 per cent in 2017. Key drivers of the economy posted significantly constrained growths, and therefore largely accounted for the slowdown in 2017. During the review period, primary and secondary industries that include Agriculture, Mining, Manufacturing, Electricity and Water supply and, Construction activities grew at an average growth of 4.3 (significantly slower), compared to the service sectors that posted improved performance (approximately 7.0 per cent). This in essence implied that the growth realized in 2017 was mainly supported by performance of the service sectors.

<sup>+</sup> Revised

Table 2.3: Gross Domestic Product by Activity

Constant 2009 Prices, KSh Million Industry 2013 2014 2015 2016+ 2017\* 854,753 942,761 957,926 Agriculture, forestry and fishing..... 818,989 900,421 Growing of crops..... 562,510 595,801 638,720 682,156 695,416 Animal production..... 167,372 169,798 173,546 177,418 178,428 25,983 24,189 19,984 19,419 Support activities to agriculture..... 24,641 Forestry & logging..... 41,567 42,946 43,377 46,515 48,299 21,557 22,019 20,137 16,688 16,364 Fishing & aquaculture..... Mining and quarrying..... 32,405 37,235 41,809 45,770 48,573 Manufacturing..... 403,128 413,281 428,153 439,665 440,478 Manufacture of food, beverages and tobacco..... 151,260 153,450 162,637 167,243 167,635 Other manufacturing and repair and installation..... 251.868 259.831 265,516 272,422 272,844 Electricity supply..... 57,301 61.461 68,499 75.039 80.234 Water supply; sewerage, waste management ..... 29,659 30,826 31,654 33,460 34,330 185,696 211,314 Construction..... 164,220 232,111 252,017 Wholesale and retail trade; repairs..... 275,291 294,357 311,746 322,468 340,812 Transportation and storage..... 241,112 254,358 274,755 296,145 317,791 199,697 164,166 172,910 183,734 194,514 Land transport..... Air transport including support services..... 21,570 21,508 21,275 22,118 23,279 All other transport including postal and courier activities..... 55,376 59,941 69,746 79,513 94,816 Accommodation and food service activities..... 52,441 43,657 43,086 48,803 55,986 Information and communication..... 121,890 139,623 149,969 182,595 164,530 91,216 109,528 118,965 132,280 149,130 Telecommunications..... Publishing, broadcasting, other IT and information activities 30,674 30,095 31,004 32,250 33,465 Financial and insurance activities..... 212,185 229,819 251,442 268,198 276,506 Financial activities..... 180,674 196,614 216,554 231,504 237,427 34,888 Insurance activities..... 31,511 33,206 36,694 39,079 294,747 311,148 362,724 384,955 Real estate..... 333,537 Professional, scientific and technical activities..... 39,111 40,712 42,188 44,820 46,740 Administrative and support service activities..... 48,201 49,361 50,113 52,060 54,046 Public administration and defence..... 141,678 149,556 157,834 165,400 174,112 Education..... 249,001 268,359 281,542 296,667 314,637 Pre-primary and Primary education..... 111,490 112,041 113,891 117,341 121,362 107,902 General secondary education..... 93,881 117,011 122,239 134,649 Higher and other education..... 43,630 48,417 50,640 57,087 58,626 Human health and social work activities..... 63,579 68,728 72,745 76,203 80,745 Arts, entertainment and recreation..... 5,039 5,190 5,479 5,269 5,822 Other service activities..... 24,403 25,989 27,551 29,212 31,254 Activities of households as employers; ...... 18,449 18,726 19,007 19,273 19,581 Financial Intermediation Services Indirectly Measured...... -86,932 -96,763 -109,826 -112,162-105,734 All economic activities 3,386,075 3,808,627 3,993,407 3,205,897 3,592,808 Taxes on products..... 469,093 491,676 516,984 440,924 456,111 GDP at market prices 3,646,821 3,842,186 4,061,901 4,300,302 4,510,391

<sup>\*</sup> Provisional

<sup>+</sup> Revised

Table 2.4: Gross Domestic Product by Activity

Primary education.....

General secondary education.....

Higher and other education.....

Human health and social work activities.....

Arts, entertainment and recreation.....

Other service activities.....

Activities of households as employers;.....

Financial Intermediation Services Indirectly Measured.....

Taxes on products.....

2017\* 2013 2014 2015+ 2016<sup>+</sup> Industry Agriculture, forestry and fishing..... 5.4 4.4 5.3 4.7 1.6 6.6 5.9 7.2 6.8 1.9 Growing of crops..... Animal production..... 1.9 1.4 2.2 2.2 0.6 3.8 -6.9 1.9 -18.9 Support activities to agriculture..... -2.87.2 Forestry & logging..... 5.0 3.3 1.0 3.8 5.9 -17.1 Fishing & aquaculture..... 2.1 -8.6 -1.9 -4.2 14.9 Mining and quarrying..... 12.3 9.5 6.1 Manufacturing..... 5.6 2.5 3.6 2.7 0.2 10.5 6.0 Manufacture of food, beverages and tobacco..... 1.4 2.8 0.2 2.8 3.2 2.2 2.6 0.2 Other manufacturing and repair and installation..... 7.3 11.5 Electricity supply..... 9.8 9.5 6.9 Water supply; sewerage, waste management..... 0.9 3.9 2.7 5.7 2.6 Construction..... 6.1 13.1 13.8 9.8 8.6 6.9 Wholesale and retail trade; repairs..... 8.4 5.9 3.4 5.7 Transportation and storage...... 1.3 8.0 7.8 5.5 7.3 Land transport ...... 4.5 5.3 6.3 5.9 2.7 Air transport including support services...... 5.4 -0.3 -1.1 4.0 5.2 -8.2 8.2 16.4 14.0 19.2 All other transport including postal and courier activities ...... -16.7 Accommodation and food services...... -4.6 -1.3 13.3 14.7 Information and communication..... 12.5 14.5 7.4 9.7 11.0 17.1 20.1 8.6 11.2 12.7 Telecommunications..... Publishing, broadcasting, other IT and information activities. 0.8 -1.9 3.0 4.0 3.8 8.3 9.4 Financial and insurance activities..... 8.2 6.7 3.1 Financial activities..... 8.1 8.8 10.1 6.9 2.6 5.1 5.2 Insurance activities..... 8.4 5.4 6.5 7.2 Real estate..... 4.1 5.6 8.8 6.1 Professional, scientific and technical activities..... 6.7 4.1 3.6 6.2 4.3 3.9 Administrative and support service activities..... 1.2 2.4 1.5 3.8 Public administration and defence..... 2.8 5.6 5.5 4.8 5.3 Education..... 6.3 7.8 4.9 5.4 6.1

Percentage Changes (growth)

All industries at basic prices

GDP at market prices

1.6

12.2

7.2

7.7

3.0

7.3

1.5

5.2

5.4

9.5

5.9

0.5

14.9

11.0

8.1

3.0

6.5

1.5

5.6

3.4

5.4

11.3

1.7

8.4

4.6

5.8

1.5

6.0

1.5

13.5

6.1

2.8

5.7

3.0

4.5

12.7

4.8

4.0

6.0

1.4

2.1

6.0

4.8

5.9

3.4

2.7

6.0

6.3

7.0

1.6

-5.7 **4.9** 

5.1

4.9

10.2

<sup>\*</sup> Provisional

<sup>+</sup>Revised

2.20. Table 2.5 shows the sectoral contribution to the overall growth for the period 2013-2017. The highest contributors to the growth recorded in 2017 were taxes on products (12.0%); Real Estate (10.6%); Transportation and Storage (10.3%); Construction (9.5%); Education (8.6%) and Information and Communication Technology (8.6%). This was a significant shift in structure of the sources of growth in 2017, compared to past years, where primary and secondary industries dominated in terms of contribution to overall growth. In 2017, all primary and secondary industries' contribution to growth decelerated notably, leaving a considerable component of the growth to be explained by service-oriented sectors.

Table 2.5: Sources of Growth, 2013-2017

Percentage Change				Changes (	growth)
Industry	2013	2014	2015 <sup>+</sup>	2016 <sup>+</sup>	2017*
Agriculture, forestry and fishing	20.9	18.3	20.8	17.8	7.2
Growing of crops	17.3	17.0	19.5	18.2	6.3
Animal production	1.6	1.2	1.7	1.6	0.5
Support activities to agriculture	0.5	-0.9	0.2	-2.0	-0.3
Forestry & logging	1.0	0.7	0.2	1.3	0.8
Fishing & aquaculture	0.6	0.2	-0.9	-1.4	-0.2
Mining and quarrying	-0.7	2.5	2.1	1.7	1.3
Manufacturing	10.6	5.2	6.8	4.8	0.4
Manufacture of food, beverages and tobacco	7.1	1.1	4.2	1.9	0.2
Other manufacturing and repair and installation	3.4	4.1	2.6	2.9	0.2
Electricity supply	2.5	2.1	3.2	2.7	2.5
Water supply; sewerage, waste management	0.1	0.6	0.4	0.8	0.4
Construction	4.7	11.0	11.7	8.7	9.5
Wholesale and retail trade; repairs	10.5	9.8	7.9	4.5	8.7
Transportation and storage	1.6	6.8	9.3	9.0	10.3
Land transport	3.5	4.5	4.9	4.5	2.5
Air transport including support services	0.5	0.0	-0.1	0.4	0.6
All other transport including postal and courier activities	-2.5	2.3	4.5	4.1	7.3
Accommodation and food services	-1.2	-4.5	-0.3	2.4	3.4
Information and communication	6.7	9.1	4.7	6.1	8.6
Telecommunications	6.6	9.4	4.3	5.6	8.0
Publishing, broadcasting, other IT and information activities.	0.1	-0.3	0.4	0.5	0.6
Financial and insurance activities	7.9	9.0	9.8	7.0	4.0
Financial activities	6.7	8.2	9.1	6.3	2.8
Insurance activities	1.2	0.9	0.8	0.8	1.1
Real estate	5.8	8.4	10.2	12.2	10.6
Professional, scientific and technical activities	1.2	0.8	0.7	1.1	0.9
Administrative and support service activities	0.3	0.6	0.3	0.8	0.9
Public administration and defence	1.9	4.0	3.8	3.2	4.1
Education	7.3	9.9	6.0	6.3	8.6
Primary education	0.9	0.3	0.8	1.4	1.9
General secondary education	5.0	7.2	4.1	2.2	5.9
Higher and other education	1.4	2.4	1.0	2.7	0.7
Human health and social work activities	2.3	2.6	1.8	1.5	2.2
Arts, entertainment and recreation	0.1	0.1	0.0	0.1	0.2
Other service activities	0.8	0.8	0.7	0.7	1.0
Activities of households as employers;	0.1	0.1	0.1	0.1	0.1
Financial Intermediation Services Indirectly Measured	-2.1	-5.0	-5.9	-1.0	3.1
All industries at basic prices	81.2	92.2	94.1	90.5	88.0
Taxes on products	18.8	7.8	5.9	9.5	12.0
GDP at market prices	100.0	100.0	100.0	100.0	100.0

<sup>\*</sup> Provisional

<sup>+</sup> Revised

2.21. Table 2.6 provides the annual production accounts for all industries for the period 2013-2017. Total output grew by 6.2 per cent from KSh 11,202.5 billion in 2016 to KSh 12,248.3 billion in 2017. Intermediate consumption, which entails the value of goods and services used up in the process of production accelerated to grow by 11.8 per cent in 2017 compared to an increase of 6.4 per cent in 2016. The value of compensation of employees grew faster (12.9%) in 2017 compared to 8.9 per cent increase in 2016. In contrast, the gross operating surplus/mixed income that is interpreted as the remuneration of capital for incorporated enterprises; and return for labour for unincorporated enterprises expanded by 5.1 per cent in 2017.

Table 2.6: Annual Production Accounts by Industry, 2013-2017

				Current Prices	KSh Million
Industry	2013	2014	2015 <sup>+</sup>	2016 <sup>+</sup>	2017*
Agriculture, forestry and fishing					
Output at basic prices	1,502,250	1,762,894	2,212,671	2,665,810	2,844,984
Intermediate consumption	247,490	279,817	315,324	353,948	402,613
Value added, gross	1,254,760	1,483,077	1,897,347	2,311,862	2,442,371
Compensation of employees	131,228	153,843	209,471	260,998	288,042
Operating surplus/mixed income, gross	1,123,532	1,329,235	1,687,876	2,050,864	2,154,329
Mining and quarrying					
Output at basic prices	69,514	78,638	91,477	99,953	104,350
Intermediate consumption	28,772	33,702	36,892	40,823	45,891
Value added, gross	40,742	44,936	54,584	59,130	58,459
Compensation of employees	8,843	13,940	17,854	20,050	22,416
Operating surplus/mixed income, gross	31,899	30,996	36,731	39,079	36,044
Manufacturing					
Output at basic prices	1,737,699	1,820,369	1,977,169	2,120,718	2,204,805
Intermediate consumption	1,231,087	1,282,369	1,388,274	1,466,879	1,556,408
Value added, gross	506,612	537,999	588,896	653,839	648,397
Compensation of employees	127,186	147,453	163,392	174,767	188,893
Operating surplus/mixed income, gross	379,426	390,546	425,503	479,072	459,504
Electricity, gas and water supply					
Output at basic prices	171,628	175,523	208,879	251,267	264,439
Intermediate consumption	77,285	78,231	72,707	69,284	67,742
Value added, gross	94,343	97,292	136,172	181,983	196,697
Compensation of employees	27,127	25,308	24,269	30,413	34,055
Operating surplus/mixed income, gross	67,215	71,985	111,903	151,570	162,643
Construction					
Output at basic prices	582,896	683,376	804,219	823,871	1,031,493
Intermediate consumption	369,331	421,285	496,657	463,065	579,055
Value added, gross	213,565	262,090	307,563	360,806	452,439
Compensation of employees	98,694	126,564	185,235	188,642	282,035
Operating surplus/mixed income, gross	114,872	135,526	122,328	172,164	170,404
Wholesale and retail trade	605.040				
Output at basic prices	685,949	773,371	839,519	923,880	1,030,389
Intermediate consumption	305,303	341,386	366,124	399,578	441,848
Value added, gross	380,646	431,985	473,395	524,303	588,540
Compensation of employees	143,960	174,523	178,893	200,609	228,595
Operating surplus/mixed income, gross	236,686	257,462	294,502	323,694	359,945
Transportation and storage			25626		
Output at basic prices	775,826	893,141	956,867	1,025,831	1,115,665
Intermediate consumption	397,301	430,684	446,380	464,075	516,227
Value added, gross	378,525	462,457	510,488	561,757	599,438
Compensation of employees	111,555	128,867	145,492	152,348	169,929
Operating surplus/mixed income, gross	266,970	333,590	364,996	409,409	429,509
Accomodation and Food Services	122 152	112 702	11 ( 500	124.505	155.000
Output at basic prices	132,153	113,503	116,720	134,507	157,992
Intermediate consumption	74,115	64,351	67,364	82,942	97,168
Value added, gross	58,037	49,151	49,356	51,565	60,824
Compensation of employees	29,678	30,466	33,887	35,257	38,101
Operating surplus/mixed income, gross	28,359	18,685	15,469	16,308	22,723
Information and communication	220 105				245.040
Output at basic prices	228,405	259,000	280,434	311,221	345,068
Intermediate consumption	159,928	193,408	189,234	207,414	235,679
Value added, gross	68,478	65,592	91,200	103,807	109,388
Compensation of employees	50,238	55,138	62,602	71,234	73,168
Operating surplus/mixed income, gross	18,240	10,454	28,598	32,573	36,220
Financial and insurance activities		4.5-5			
Output at basic prices	413,707	492,198	555,690	645,062	741,097
Intermediate consumption	100,587	125,434	131,734	139,732	163,273
Value added, gross	313,120	366,764	423,956	505,331	577,824
Compensation of employees	93,668	102,495	83,194	89,197	88,066
Operating surplus/mixed income, gross	219,452	264,269	340,762	416,134	489,758

<sup>\*</sup> Provisional

<sup>\*</sup> Revised

Table 2.6: Annual Production Accounts by Industry, 2013-2017 (Cont'd)

-			2015+	Current Prices	KSh Million
Industry	2013	2014	2015+	2016+	2017*
Real estate					
Output at basic prices	420,365	467,885	531,735	601,937	655,078
Intermediate consumption	44,777	50,056	57,418	69,816	79,731
Value added, gross	375,588	417,829	474,318	532,121	575,347
Compensation of employees	32,644	36,436	40,820	44,831	48,658
Operating surplus/mixed income, gross	342,944	381,393	433,498	487,290	526,689
Professional, scientific and technical activities					
Output at basic prices	71,247	72,950	74,812	81,361	88,793
Intermediate consumption	22,898	20,958	18,999	20,351	23,615
Value added, gross	48,349	51,992	55,812	61,009	65,178
Compensation of employees	28,230	30,387	32,551	34,699	37,464
Operating surplus/mixed income, gross	20,119	21,605	23,261	26,311	27,715
Administrative and support service activities					
Output at basic prices	68,239	72,794	75,866	80,656	86,112
Intermediate consumption	10,927	11,726	12,016	12,906	14,046
Value added, gross	57,312	61,067	63,849	67,750	72,067
Compensation of employees	25,050	25,976	32,114	33,287	34,777
Operating surplus/mixed income, gross	32,262	35,092	31,735	34,463	37,290
Public administration and defence					
Output at basic prices	363,287	417,742	499,174	540,280	614,845
Intermediate consumption	154,639	174,216	231,529	241,275	283,947
Value added, gross	208,647	243,526	267,645	299,005	330,899
Compensation of employees	164,585	191,806	203,751	232,562	261,155
Operating surplus/mixed income, gross	44,062	51,720	63,893	66,443	69,744
Education	11,002	31,720	03,073	00,113	07,711
Output at basic prices	430,102	483,396	537,608	557,815	587,635
Intermediate consumption	178,144	203,852	229,480	249,680	268,191
Value added, gross		•	308,128	*	*
, 8	251,958	279,543	*	308,135	319,445
Compensation of employees	234,474	266,008	294,325	285,915	301,157
Operating surplus/mixed income, gross	17,484	13,536	13,803	22,220	18,287
Health and social work	154 470	164.050	105 (00	210 227	222.002
Output at basic prices	154,479	164,850	185,698	210,337	232,983
Intermediate consumption	79,322	72,881	77,675	90,776	106,672
Value added, gross	75,157	91,969	108,023	119,561	126,311
Compensation of employees	84,875	104,938	107,039	121,068	137,049
Operating surplus/mixed income, gross	-9,718	-12,969	984	-1,507	-10,738
Other service activities					
Output at basic prices	95,188	106,339	117,002	127,960	142,596
Intermediate consumption	32,982	36,252	38,847	43,598	51,281
Value added, gross	62,206	70,086	78,155	84,361	91,314
Compensation of employees	51,439	57,499	62,864	69,653	76,717
Operating surplus/mixed income, gross	10,767	12,587	15,291	14,708	14,597
Less: Financial services indirectly measured					
Intermediate consumption	124,136	134,588	163,306	200,667	228,918
Value added, gross	-124,136	-134,588	-163,306	-200,667	-228,918
All industries at basic prices					
Output at basic prices	7,902,933	8,837,967	10,065,540	11,202,466	12,248,323
Intermediate consumption	3,639,022	3,955,197	4,339,960	4,616,808	5,162,303
Gross value added at basic prices	4,263,911	4,882,769	5,725,580	6,585,658	7,086,020
Other taxes on production	137,804	151,789	168,336	186,119	201,542
Less: Subsidies					
Compensation of employees	1,443,473	1,671,646	1,877,753	2,045,528	2,310,277
Gross operating surplus/mixed income	2,682,633	3,059,334	3,679,491	4,354,011	4,574,201
Total economy		•			•
Output at basic prices	7,902,933	8,837,967	10,065,540	11,202,466	12,248,323
Taxes on products less subsidies on products	481,179	519,878	558,605	608,489	663,406
Intermediate consumption	3,639,022	3,955,197	4,339,960	4,616,808	5,162,303
GDP at market prices	4,745,090	5,402,647	6,284,185	7,194,147	7,749,426
* Provisional	,,	, ,	,,	,, <del>-</del> -,	,,

<sup>\*</sup> Provisional

<sup>+</sup> Revised

2.22. The components of expenditure on GDP at current prices and their respective shares to GDP at market prices are shown Table 2.7 and Table 2.8, respectively. Gross domestic expenditure increased from KSh 7,889.7 billion in 2016 to KSh 8,823.0 billion in 2017. The share of private consumption remained dominant over other components but the magnitude was largely unchanged over the five-year period. Similarly, the share of government final consumption remained relatively stable at about 14.0 per cent during the same period. The contribution of Gross Fixed Capital Formation (GFCF) rallied from a dip of 4.3 percentage points in 2016 to stand at 18.9 per cent. The share of imports of goods and services to total gross domestic product grew faster than that of export of goods and services during the review period.

Table 2.7: Expenditure on the Gross Domestic Product, 2013-2017

			Cur	rent Prices - 1	XSh Million
Expenditure category	2013	2014	2015 <sup>+</sup>	2016 <sup>+</sup>	2017*
Government final consumption expenditure	679,876	764,783	885,293	956,349	1,105,243
Private final consumption expenditure	3,787,901	4,272,830	4,907,347	5,637,043	6,162,336
Final consumption expenditure by NPISH	43,552	43,709	47,726	52,191	61,877
Gross fixed capital formation	976,086	1,236,107	1,358,366	1,237,818	1,461,256
Changes in inventories	-22,059	-24,203	-9,406	6,288	32,286
Gross domestic expenditure	5,465,356	6,293,226	7,189,326	7,889,689	8,822,999
Exports of goods and services	945,478	988,521	1,042,700	1,005,110	1,079,589
Imports of goods and services	1,575,731	1,782,945	1,735,621	1,638,838	1,973,678
Discrepancy 1	-89,959	-96,392	-212,220	-61,815	-179,484
Gross domestic product at market prices	4,745,143	5,402,410	6,284,185	7,194,147	7,749,426

<sup>&</sup>lt;sup>1</sup> Difference between GDP production approach and GDP expenditure approach

Table 2.8: Expenditure on the Gross Domestic Product, 2013-2017

			Percentage	contributio	n to GDP
Expenditure category	2013	2014	2015 <sup>+</sup>	2016 <sup>+</sup>	2017*
Government final consumption expenditure	14.3	14.2	14.1	13.3	14.3
Private final consumption expenditure	79.8	79.1	78.1	78.4	79.5
Final consumption expenditure by NPISH	0.9	0.8	0.8	0.7	0.8
Gross fixed capital formation	20.6	22.9	21.6	17.2	18.9
Changes in inventories	-0.5	-0.4	-0.1	0.1	0.4
Gross domestic expenditure	115.2	116.5	114.4	109.7	113.9
Exports of goods and services	19.9	18.3	16.6	14.0	13.9
Imports of goods and services	33.2	33.0	27.6	22.8	25.5
Discrepancy	-1.9	-1.8	-3.4	-0.9	-2.3
Gross domestic product at market prices	100.0	100.0	100.0	100.0	100.0
* D · · · 1					

Provisional

2.23. Components of expenditure on GDP valued at constant prices are presented in Table 2.9. The growth of gross domestic expenditure increased more than three-fold from 2.5 per cent in 2016 to 7.8 per cent in 2017. Private consumption expenditure recorded the highest growth since 2013 (7.0%) in 2017, while government consumption grew slower by 0.1 percentage points. The value of export of goods and services contracted further by 6.2 per cent while that of imports rallied from a contraction of 6.3 per cent to grow by 8.4 per cent mainly due to recovery of the international oil prices.

<sup>&</sup>lt;sup>2</sup> Non Profit Institutions Serving Households

 $<sup>^*</sup>$  Provisional

<sup>+</sup> Revised

<sup>+</sup> Revised

**Table 2.9: Expenditure on the Gross Domestic Product, 2013-2017** 

			Constant 20	09 Prices - K	Sh Million
Expenditure category	2013	2014	2015+	2016+	2017*
Government final consumption expenditure	532,890	541,923	604,354	655,598	710,508
Private final consumption expenditure	2,824,756	2,946,395	3,099,387	3,244,554	3,470,673
Final consumption expenditure by NPISH	33,150	33,502	34,328	35,143	36,479
Gross fixed capital formation	725,143	828,131	882,677	800,038	850,356
Changes in inventories	-8,545	-33,774	-48,544	-47,767	-13,524
Gross domestic expenditure	4,107,394	4,316,176	4,572,203	4,687,565	5,054,491
Exports of goods and services	711,768	753,318	800,053	779,133	731,107
Imports of goods and services	1,132,058	1,249,558	1,264,204	1,184,866	1,284,063
Discrepancy 1	-40,245	22,095	-46,150	18,470	8,856
Gross domestic product at market prices	3,646,858	3,842,032	4,061,901	4,300,302	4,510,391

<sup>&</sup>lt;sup>1</sup> Difference between GDP production approach and GDP expenditure approach

Table 2.10: Expenditure on the Gross Domestic Product, 2013-2017

			Percenta	age Changes	(growth)
Expenditure category	2013	2014	2015+	2016+	2017*
Government final consumption expenditure	6.1	1.7	11.5	8.5	8.4
Private final consumption expenditure	8.4	4.3	5.2	4.7	7.0
Final consumption expenditure by NPISH	3.5	1.1	2.5	2.4	3.8
Gross fixed capital formation	2.1	14.2	6.6	-9.4	6.3
Gross domestic expenditure	6.4	5.1	5.9	2.5	7.8
Exports of goods and services	-2.2	5.8	6.2	-2.6	-6.2
Imports of goods and services	-0.4	10.4	1.2	-6.3	8.4
Gross domestic product at market prices	5.9	5.4	5.7	5.9	4.9

<sup>\*</sup> Provisional

2.24. Table 2.11a provides details of the value of additions to fixed assets by type at current prices from 2013 to 2017. Table 2.11b shows the shares of the various types of fixed assets during the period under review. The value of additions to fixed assets increased from KSh 1,237.8 billion in 2016 to KSh 1,461.3 billion in 2017. The value of dwellings, buildings, and other machinery and equipment accounted for 23.3, 22.2 and 17.8 per cent of total Gross Fixed Capital Formation (GFCF), respectively in 2017.

Table 2.11a: Gross Fixed Capital Formation, 2013-2017

			Curre	nt Prices - K	Sh Million
Type of Asset	2013	2014	2015+	2016 <sup>+</sup>	2017*
Dwellings	197,336	231,539	257,322	270,289	340,606
Buildings other than dwellings	195,630	224,904	245,175	261,591	324,520
Other structures	109,016	133,706	180,304	166,166	173,207
Transport equipment	182,236	298,121	302,856	175,507	215,455
ICT equipment	63,247	57,896	73,407	79,052	93,806
Other machinery and equipment	190,000	249,141	251,648	232,368	259,475
Animal resources yielding repeat products	9,407	9,674	10,438	11,373	9,261
Tree, crop and plant resources yielding repeat products	6,832	6,322	6,616	6,973	7,362
Intellectual property products	22,382	24,804	30,601	34,500	37,564
Total	976,086	1,236,107	1,358,366	1,237,818	1,461,256

<sup>\*</sup> Provisional

<sup>\*</sup> Provisional

 $<sup>^{\</sup>scriptscriptstyle +}$  Revised

<sup>+</sup> Revised

<sup>+</sup> Revised

Table 2.11b: Gross Fixed Capital Formation, 2013-2017

			Per	centage Con	tribution
Type of Asset	2013	2014	2015 <sup>+</sup>	2016 <sup>+</sup>	2017*
Dwellings	20.2	18.7	18.9	21.8	23.3
Buildings other than dwellings	20.0	18.2	18.0	21.1	22.2
Other structures	11.2	10.8	13.3	13.4	11.9
Transport equipment	18.7	24.1	22.3	14.2	14.7
ICT equipment	6.5	4.7	5.4	6.4	6.4
Other machinery and equipment	19.5	20.2	18.5	18.8	17.8
Animal resources yielding repeat products	1.0	0.8	0.8	0.9	0.6
Tree crop and plant resources yielding repeat products	0.7	0.5	0.5	0.6	0.5
Intellectual property products	2.3	2.0	2.3	2.8	2.6
Total	100.0	100.0	100.0	100.0	100.0

<sup>\*</sup> Provisional

2.25. Tables 2.12a and 2.12b present the values of real GFCF by type of asset and the corresponding growth rates for the period 2013 - 2017. The total value of real GFCF increased by 6.3 per cent in 2017 compared to a contraction of 9.4 per cent in 2016. The rebound was mainly as a result of a substantial growth in additions to transport equipment during the review period. The value of additions to dwellings and other buildings other than dwellings, grew by 15.8 and 13.6 per cent, respectively, in 2017.

Table 2.12a: Gross Fixed Capital Formation, 2013-2017

			Constant 200	9 Prices - K	Sh Million
Type of Asset	2013	2014	2015 <sup>+</sup>	2016+	2017*
Dwellings	156,739	172,082	188,006	189,862	219,767
Buildings other than dwellings	156,352	170,332	182,275	187,856	213,368
Other structures	87,128	101,263	134,046	119,328	113,881
Transport equipment	140,838	225,839	218,525	123,997	147,783
ICT equipment	47,791	36,357	34,521	47,412	48,425
Other machinery and equipment	106,167	90,862	89,126	91,804	66,296
Animal resources yielding repeat products	6,173	5,944	6,104	6,509	5,171
Tree crop and plant resources yielding repeat products	5,607	4,971	5,047	5,162	5,283
Intellectual property products	18,348	20,480	25,027	28,107	30,382
Total	725,143	828,131	882,677	800,038	850,356

<sup>\*</sup> Provisional

Table 2.12b: Gross Fixed Capital Formation, 2013-2017

			Percenta	ige Changes	(growth)
Type of Asset	2013	2014	2015+	2016+	2017*
Dwellings	10.2	9.8	9.3	1.0	15.8
Buildings other than dwellings	12.0	8.9	7.0	3.1	13.6
Other structures	1.6	16.2	32.4	-11.0	-4.6
Transport equipment	3.0	60.4	-3.2	-43.3	19.2
ICT equipment	-5.8	-23.9	-5.1	37.3	2.1
Other machinery and equipment	-15.0	-14.4	-1.9	3.0	-27.8
Animal resources yielding repeat products	5.0	-3.7	2.7	6.6	-20.6
Tree crop and plant resources yielding repeat products	2.6	-11.3	1.5	2.3	2.4
Intellectual property products	-2.4	11.6	22.2	12.3	8.1
Total	2.1	14.2	6.6	-9.4	6.3

<sup>\*</sup> Provisional

<sup>+</sup> Revised

<sup>+</sup> Revised

<sup>+</sup> Revised

2.26. The relationship between the GDP and Gross National Income (GNI) for the period 2013 to 2017 is shown in Table 2.13 and Table 2.14. The nominal GNI increased from KSh 7,124.7 billion in 2016 to 7,664.6 billion in 2017. Similarly, the Gross National Disposable Income (GNDI) grew by 9.0 per cent from KSh billion 7,452.6 billion in 2016 to KSh 8,124.6 billion in 2017. Gross domestic product per capita rose from KSh 158,576 in 2016 to KSh 166,315 in 2017 while GNI per capita increased by 4.9 per cent to stand at KSh 164,494 in 2017. Primary incomes receivable from the rest of the world declined from KSh 44.0 billion in 2016 to KSh 41.2 billion in 2017. Current transfers receivable from the rest of the world increased significantly to stand at KSh 465.8 billion in 2017.

Table 2.13: Gross Domestic Product and Gross National Income, 2013-2017

			Curre	nt Prices - K	Sh Million
	2013	2014	2015+	2016+	2017*
Current Prices, KSh Million					
Compensation of employees	1,444,135	1,674,092	1,881,911	2,048,654	2,314,567
Consumption of fixed capital	561,868	730,422	815,724	861,559	995,876
Net operating surplus	2,257,907	2,478,256	3,027,945	3,675,444	3,775,577
Taxes on products	481,179	519,878	558,605	608,489	663,406
Gross domestic product at market prices	4,745,090	5,402,647	6,284,185	7,194,147	7,749,426
Primary incomes					
Receivable from the rest of the world	28,712	43,643	48,298	43,991	41,208
Payable to rest of the world	-80,384	-119,981	-115,459	-113,407	-126,038
Gross national income at market prices	4,693,419	5,326,310	6,217,024	7,124,731	7,664,596
Current transfers					
Receivable from the rest of the world	268,925	327,853	345,218	333,039	465,763
Payable to rest of the world	-4,020	-17,853	-6,217	-5,192	-5,787
Gross national disposable income	4,958,324	5,636,310	6,556,024	7,452,578	8,124,571
Per capita, KSh					
Gross domestic product at market prices	113,539	125,756	142,316	158,576	166,315
Gross national income at market prices	112,303	123,980	140,795	157,046	164,494
Constant prices					
GDP at market prices, KSh Million	3,646,858	3,842,032	4,061,901	4,300,302	4,510,391
Per capita	87,261	89,430	91,989	94,789	96,800
- Annual percentage change	3.0	2.5	2.9	3.0	2.1

<sup>\*</sup> Provisional

<sup>+</sup> Revised

Table 2.14: National Disposable Income and Saving, 2013-2017

Current Prices - KSh Million

					- KSII WIIIIOII
	2013	2014	2015+	2016+	2017*
Gross national disposable income	4,958,324	5,636,310	6,556,024	7,452,578	8,124,571
Consumption of fixed capital	561,868	730,422	815,724	861,559	995,876
Net national disposable income	4,396,455	4,905,889	5,740,300	6,591,019	7,128,694
Final consumption expenditure	4,511,328	5,081,322	5,840,366	6,645,583	7,329,456
Private	3,787,901	4,272,830	4,907,347	5,637,043	6,162,336
Non-Profit Institutions Serving Householuds	43,552	43,709	47,726	52,191	61,877
General government	679,876	764,783	885,293	956,349	1,105,243
Saving, net	-114,873	-175,434	-100,065	-54,564	-200,762
Financing of capital formation					
Saving, net	-114,873	-175,434	-100,065	-54,564	-200,762
Capital transfers from abroad, net	13,644	24,204	25,219	20,878	19,046
Total	-101,229	-151,230	-74,846	-33,686	-181,716
Gross fixed capital formation	976,086	1,236,107	1,358,366	1,237,818	1,461,256
Consumption of fixed capital	-561,868	-730,422	-815,724	-861,559	-995,876
Changes in inventories	-22,059	-24,203	-9,406	6,288	32,286
Net lending (+) / Net borrowing(-)	-493,388	-632,712	-608,083	-416,233	-679,382
Total	-101,229	-151,230	-74,846	-33,686	-181,716

<sup>\*</sup> Provisional

Table 2.15 Gross Domestic Product by Activity

 $Current\ prices-KSh\ million$ 

	Т.	_	1	_		T .		1	<u> </u>	1	_
Year	Quar-	Agriculture	Mining	Manufac-	Electrici	Constru	Wholesal	Accomm	Transpo	Informati	Financial
	ter		and	turing	ty and	c-tion	e and	odation	rt and	on and	&
			quarrying		water		retail	& Food	storage	communi	insurance
					supply		trade	services		cation	
2013		1,254,760	40,742	506,612	94,343	213,565	380,646	58,037	378,525	68,478	313,120
2014		1,483,077	44,936	537,999	97,292	262,090	431,985	49,151	462,457	65,592	366,764
2015		1,897,347	54,584	588,896	136,172	307,563	473,395	49,356	510,488	91,200	423,956
2016		2,311,862	59,130	653,839	181,983	360,806	524,303	51,565	561,757	103,807	505,331
2017		2,442,371	58,459	648,397	196,697	452,439	588,540	60,824	599,438	109,388	577,824
	1	365,691	11,201	128,498	23,797	52,695	84,341	17,298	81,872	17,938	67,686
2012	2	337,137	8,747	120,997	24,606	53,364	94,698	12,896	90,388	15,253	79,135
2013	3	280,422	11,541	127,584	22,987	55,686	106,978	15,299	96,674	14,877	79,994
	4	271,511	9,252	129,533	22,953	51,820	94,628	12,544	109,592	20,410	86,305
	1	436,992	12,620	137,265	19,600	56,848	101,617	14,694	96,188	16,681	86,427
2014	2	385,837	9,945	134,877	23,663	67,642	106,012	10,466	114,294	14,934	92,478
2014	3	350,835	10,462	133,898	28,545	67,304	117,757	11,529	122,293	15,286	85,762
	4	309,413	11,908	131,959	25,484	70,297	106,599	12,463	129,683	18,691	102,097
	1	534,251	15,604	148,868	26,572	69,183	110,838	13,485	115,942	20,172	96,870
2015+	2	518,388	12,537	149,262	31,521	75,824	116,716	10,604	122,489	19,429	102,063
2015+	3	454,375	14,275	149,826	37,739	77,348	130,084	12,404	131,738	21,572	104,330
	4	390,332	12,167	140,940	40,340	85,208	115,757	12,862	140,319	30,027	120,692
	1	577,774	14,529	161,606	37,184	78,403	116,736	12,567	112,130	25,341	113,724
2014	2	701,637	13,905	172,116	51,447	90,615	124,101	10,568	142,533	22,908	122,895
2016+	3	613,867	13,993	169,047	47,428	94,549	147,957	13,743	150,568	23,566	125,528
	4	418,584	16,702	151,070	45,925	97,238	135,509	14,687	156,526	31,992	143,184
	1	665,443	15,104	165,016	43,492	96,481	132,948	15,431	121,809	27,383	146,766
2017*	2	744,884	13,737	170,440	56,228	113,232	143,157	12,364	153,464	24,368	132,470
2017*	3	628,474	14,841	164,344	53,152	114,906	167,613	16,095	155,027	24,689	151,903
	4	403,570	14,778	148,597	43,826	127,819	144,822	16,935	169,137	32,948	146,684

<sup>+</sup> Revised

<sup>\*</sup> Provisional

Table 2.15: Gross Domestic Product by Activity (Cont'd)

Current prices - KSh million

Year	Quar-	Public	Profession	Dool.	Educati	Health	Other	FISIM	All indust.	Taxes on	GDP at	GDP,
1 Cai	ter	admi-	al, admin	estate	on	licaith	services	PISINI	at basic	products		seasonally
	ter	nistration	and	estate	OII		services		prices	products	prices	adjusted
		mstration	support						prices		prices	aujusteu
			support									
2013		208,647	105,661	375,588	251,958	75,157	62,206	-124,136	4,263,911	481,179	4,745,090	
2013		243,526	113,059	417,829	279,543	91,969	70,086	-134,588	4,882,769	519,878	5,402,647	
2015		267,645	119,662	474,318	308,128	108,023	78,155	-163,306	5,725,580	558,605	6,284,185	
2013		299,005	128,759	532,121	308,128	119,561	84,361	-200,667		608,489	7,194,147	
		· ·	· ·	· '		· 1	· ·	· '	6,585,658	1	' '	
2017	,	330,899	137,245	575,347	319,445	126,311	91,314	-228,918	7,086,020	663,406	7,749,426	1 120 005
	1	51,716	24,352	90,941	64,702	17,158	14,810	-28,042	1,086,656	111,189	1,197,844	1,139,995
2013	2	54,629	25,276	92,477	61,941	18,642	15,088	-31,652	1,073,623	119,263	1,192,885	1,175,187
	3	51,475	27,084	94,832	62,337	18,736	15,760	-31,209	1,051,057	130,947	1,182,005	1,203,734
	4	50,827	28,949	97,339	62,978	20,621	16,549	-33,234	1,052,575	119,781	1,172,356	1,236,981
	1	59,526	25,433	100,053	73,210	19,926	16,711	-31,803	1,241,987	120,003	1,361,990	1,301,203
2014	2	64,979	26,922	103,610	69,185	23,211	17,056	-34,101	1,231,010	132,308	1,363,319	1,330,466
	3	56,852	29,301	106,168	67,468	23,397	17,547	-31,145	1,213,259	138,105	1,351,363	1,361,689
	4	62,169	31,404	107,998	69,681	25,435	18,772	-37,540	1,196,513	129,462	1,325,976	1,419,898
	1	61,683	28,113	112,056	82,563	23,440	18,846	-34,843	1,443,642	127,014	1,570,656	1,514,901
2015 <sup>+</sup>	2	73,267	28,819	116,345	77,718	27,581	19,136	-40,989	1,460,712	140,750	1,601,461	1,542,708
2013	3	63,165	30,578	120,970	75,114	27,553	19,963	-38,017	1,433,017	147,973	1,580,991	1,575,647
	4	69,530	32,151	124,947	72,733	29,449	20,211	-49,457	1,388,209	142,868	1,531,077	1,662,375
	1	66,894	30,119	123,770	84,690	25,958	20,471	-45,019	1,556,875	136,367	1,693,242	1,653,028
2016+	2	81,395	31,436	133,444	78,466	30,817	20,586	-50,732	1,778,138	150,612	1,928,749	1,833,652
2016	3	72,148	32,630	135,903	74,695	31,093	21,532	-49,648	1,718,600	164,502	1,883,102	1,856,008
	4	78,568	34,574	139,004	70,285	31,693	21,772	-55,268	1,532,046	157,008	1,689,054	1,859,769
	1	71,561	31,713	141,524	82,025	28,374	22,579	-56,150	1,751,498	157,273	1,908,772	1,882,397
2015*	2	85,747	34,048	142,942	80,606	32,548	22,436	-48,315	1,914,354	160,721	2,075,075	1,948,951
2017	3	82,706	34,341	143,829	79,280	32,175	23,185	-61,944	1,824,615	179,536	2,004,152	1,961,260
	4	90,885	37,143	147,052	77,534	33,215	23,115	-62,508	1,595,552	165,875	1,761,427	1,962,885

+ Revised Provisional

Table 2.16 Gross Domestic Product by Activity

Constant 2009 Prices – KSh Million

	_									ant 2009 Prices	
Year	Quar-	Agriculture	Mining		Electricity	Construc-		Accommod		Information	
	ter		and	turing	& water	tion	le and	ation &	and storage	and	&
			quarrying		supply		retail	Food		communicat	insurance
							trade	Services		ion	
2013		818,989	32,405	403,128	86,961	164,220	275,291	52,441	241,112	121,890	212,185
2014		854,753	37,235	413,281	92,287	185,696	294,357	43,657	254,358	139,623	229,819
2015		900,421	41,809	428,153	100,153	211,314	311,746	43,086	274,755	149,969	251,442
2016		942,761	45,770	439,665	108,499	232,111	322,468	48,803	296,145	164,530	268,198
2017		957,926	48,573	440,478	114,564	252,017	340,812	55,986	317,791	182,595	276,506
	1	247,605	9,243	102,483	21,106	39,810	63,479	16,318	53,589	29,516	51,666
2013	2	225,683	6,752	98,321	22,112	40,543	69,125	10,857	58,508	26,194	52,662
2013	3	174,456	8,754	100,552	21,694	42,883	76,603	13,504	61,356	26,880	53,531
	4	171,245	7,656	101,772	22,048	40,985	66,084	11,762	67,659	39,300	54,326
	1	258,061	10,328	107,565	21,913	42,844	69,357	13,255	55,497	33,400	55,414
2014	2	235,675	8,559	105,381	23,137	47,230	72,442	8,222	61,810	28,658	56,443
2014	3	186,756	8,875	101,099	23,347	46,631	80,704	10,060	66,670	31,939	58,071
	4	174,261	9,473	99,237	23,891	48,991	71,853	12,120	70,381	45,626	59,891
	1	278,211	11,240	110,684	24,065	48,368	73,194	11,878	60,080	36,374	60,965
2015	2	246,081	9,728	108,579	25,884	52,970	75,913	8,075	67,350	31,030	61,331
2015 <sup>+</sup>	3	194,154	10,521	105,798	25,483	54,538	86,328	10,146	73,542	33,838	64,909
	4	181,974	10,320	103,091	24,722	55,438	76,311	12,987	73,782	48,726	64,238
	1	290,385	11,988	112,038	26,604	52,802	75,735	12,781	65,376	40,227	66,309
2016	2	264,760	10,755	113,533	28,926	56,778	77,533	9,168	71,981	33,782	66,534
2016 <sup>+</sup>	3	203,320	11,549	109,553	27,179	59,879	89,564	11,509	77,576	36,820	69,280
	4	184,296	11,479	104,540	25,789	62,651	79,636	15,344	81,212	53,701	66,075
	1	293,880	12,861	113,394	28,226	57,155	79,399	14,901	71,540	45,264	69,838
***	2	267,693	11,362	113,376	30,667	62,178	81,729	10,595	77,733	37,441	68,849
2017	3	211,044	12,214	109,562	28,392	63,222	95,130	13,294	81,619	40,743	70,216
	4	185,309	12,136	104,146	27,279	69,461	84,553	17,196	86,900	59,147	67,604

<sup>+</sup> Revised

<sup>\*</sup> Provisional

Table 2.16: Gross Domestic Product by Activity (Cont'd)

Constant 2009 Prices - KSh Million

		Constant 2009 Prices – KSh Millio										
Year	Quar-	Public	Professional,	Real	Education	Health	Other	FISIM	All indust.	Taxes on	GDP at	GDP,
	ter	admi-	admin and	estate			services		at basic	products	market	seasonally
		nistration	support						prices		prices	adjusted
			services									
2013		141,678	87,312	294,747	249,001	63,579	47,891	-86,932	3,205,897	440,924	3,646,821	
2014		149,556	90,073	311,148	268,359	68,728	49,905	-96,763	3,386,075	456,111	3,842,186	
2015		157,834	92,301	333,537	281,542	72,745	51,827	-109,826	3,592,808	469,093	4,061,901	
2016		165,400	96,880	362,724	296,667	76,203	53,964	-112,162	3,808,627	491,676	4,300,302	
2017		174,112	100,786	384,955	314,637	80,745	56,657	-105,734	3,993,407	516,984	4,510,391	
	1	36,175	20,342	72,476	61,552	14,849	11,652	-21,267	830,593	103,755	934,348	899,066
2013	2	35,711	20,966	73,220	61,948	16,249	11,739	-21,350	809,239	108,351	917,590	908,178
2013	3	36,636	22,390	74,057	62,680	15,954	12,065	-21,892	782,102	120,259	902,361	918,941
	4	33,156	23,615	74,994	62,821	16,528	12,434	-22,423	783,963	108,560	892,522	926,918
	1	37,954	20,488	76,009	67,065	15,529	12,270	-22,980	873,970	108,947	982,917	940,126
2014	2	40,292	21,459	77,290	67,292	17,535	12,284	-23,650	860,057	112,704	972,761	958,687
2014	3	34,222	23,288	78,813	67,179	17,355	12,417	-24,702	822,725	121,362	944,087	968,312
	4	37,088	24,839	79,036	66,823	18,310	12,934	-25,431	829,324	113,098	942,421	980,207
	1	37,435	21,928	80,827	69,978	16,329	12,735	-25,982	928,309	110,959	1,039,268	996,445
2015+	2	43,972	22,325	82,645	70,408	18,610	12,754	-26,696	910,959	115,715	1,026,674	1,008,599
2015+	3	37,235	23,450	84,294	70,508	18,429	13,167	-27,829	878,509	122,957	1,001,467	1,025,663
	4	39,193	24,598	85,772	70,648	19,376	13,171	-29,319	875,031	119,462	994,493	1,040,733
	1	39,469	22,735	88,429	74,295	17,003	13,247	-28,529	980,894	114,043	1,094,937	1,055,019
2014	2	46,702	23,682	89,856	74,397	19,573	13,236	-28,284	972,915	118,570	1,091,485	1,069,985
2016+	3	38,916	24,527	91,398	74,543	19,507	13,729	-27,954	930,895	127,818	1,058,713	1,080,074
	4	40,314	25,935	93,040	73,433	20,120	13,752	-27,395	923,923	131,245	1,055,168	1,092,878
-	1	41,214	23,522	94,758	78,812	17,798	14,119	-28,160	1,028,521	119,925	1,148,446	1,108,675
*	2	49,167	25,074	96,032	78,687	20,880	13,930	-26,254	1,019,141	125,987	1,145,128	1,121,461
2017	3	40,896	25,163	96,873	78,594	20,705	14,352	-26,206	975,812	132,933	1,108,744	1,130,515
	4	42,835	27,026	97,292	78,544	21,361	14,257	-25,114	969,933	138,140	1,108,073	1,144,779
- n ·		72,000	27,020	71,292	/ 0,5-11	21,501	17,23/	-23,117	707,733	130,140	1,100,073	1,177,//2

<sup>+</sup> Revised
\* Provisional

Table 2.17: Growth rate of Gross Domestic Product by Activity

Constant 2009 Prices – Per cent

Year	Quar-	Agriculture	Mining	Manufac-	Electricity	Construc-	Wholesale	Accommoda	Transport	Information	Financial &
	ter		and	turing	and water	tion	and retail	tion &	and storage	and	insurance
			quarrying		supply		trade	restaurant		communicat	
										ion	
2013		5.4	-4.2	5.6	6.6	l .	8.4		1.3		8.2
2014		4.4	14.9	2.5	6.1	13.1	6.9	-16.7	5.5	14.5	8.3
2015		5.3	12.3	3.6	8.5	13.8	5.9	-1.3	8.0	7.4	9.4
2016		4.7	9.5	2.7	8.3	9.8	3.4	13.3	7.8	9.7	6.7
2017		1.6	6.1	0.2	5.6	8.6	5.7	14.7	7.3	11.0	
	1	5.3		9.6	5.6		15.7	-19.6	-8.7	15.0	
2013	2	6.8		7.5	10.4	9.8	11.3	1.2	1.1	11.6	10.0
2013	3	5.8		5.3			5.7	12.4		12.6	7.1
	4	3.6	-12.6	0.4	3.7	-2.9	2.5	-1.3	9.7	11.3	5.2
	1	4.2		5.0							7.3
2014	2	4.4		7.2	4.6	16.5	4.8		5.6	9.4	
2017	3	7.1	1.4		7.6		l			18.8	8.5
	4	1.8	23.7	-2.5			8.7	3.0	4.0	16.1	10.2
	1	7.8		2.9	9.8	12.9	5.5	-10.4		8.9	
2015	2	4.4	l	3.0		12.2	4.8		9.0	8.3	8.7
2013	3	4.0	18.5	4.6	9.1	17.0	l		10.3	5.9	11.8
	4	4.4		3.9	3.5	13.2		7.2	4.8	6.8	
	1	4.4					l		8.8	10.6	
2016 <sup>+</sup>	2	7.6			11.8	7.2	2.1	13.5	6.9	8.9	8.5
2010	3	4.7	9.8	3.5	6.7	9.8	3.7	13.4	5.5	8.8	6.7
	4	1.3		1.4					10.1	10.2	2.9
	1	1.2	7.3	1.2		8.2		16.6			5.3
2017*	2	1.1	5.6	-0.1	6.0		5.4			10.8	3.5
2017	3	3.8	5.8	0.0	4.5	5.6	I	15.5	5.2	10.7	1.4
	4	0.5	5.7	-0.4	5.8	10.9	6.2	12.1	7.0	10.1	2.3

<sup>+</sup> Revised

Table 2.17: Growth rate of Gross Domestic Product by Activity (Cont'd)

Constant 2009 prices - Per cent

Year	Quar-	Public	Professional,	Real	Education	Health	Other	FISIM	All	Taxes on		GDP.
Teur	_	admi-	admin and	estate	Education	liteuren	services	1101111	indust.			seasonally
	ter			estate			services			products		·
		nistration	support						at basic		prices	adjusted
			services						prices			
2013		2.8		4.1	6.3	7.7	4.6	5.2	5.4	9.5	5.9	
2014		5.6		5.6					5.6			
2015		5.5				5.8			6.1	2.8		
2016		4.8	5.0	8.8	5.4	4.8	4.1	2.1	6.0	4.8	5.9	
2017		5.3	4.0	6.1	6.1	6.0	5.0	-5.7	4.9	5.1	4.9	
	1	3.6						1	5.5			1.5
2013	2	3.8	6.2	3.9	8.1	9.7	4.9	6.4	6.8	13.6	7.5	1.0
2013	3	7.1	1.4	4.2	5.4	8.5	4.0	2.4	5.9	10.0	6.4	1.2
	4	-3.4	0.0	4.6	5.3	15.0	6.1	2.6	3.5	3.4	3.5	
	1	4.9		4.9	9.0			8.1	5.2			
2014	2	12.8	2.4	5.6	8.6	7.9	4.6	10.8	6.3	4.0	6.0	2.0
2014	3	-6.6	4.0	6.4	7.2	8.8	2.9	12.8	5.2	0.9	4.6	1.0
	4	11.9	5.2	5.4	6.4	10.8	4.0	13.4	5.8	4.2	5.6	
	1	-1.4	7.0			5.2	3.8	13.1	6.2	1.8	5.7	1.7
2015+	2	9.1	4.0	6.9	4.6	6.1	3.8	12.9	5.9	2.7	5.5	1.2
2015+	3	8.8	0.7	7.0	5.0	6.2	6.0	12.7	6.8	1.3	6.1	1.7
	4	5.7	-1.0	8.5	5.7	5.8	1.8	15.3	5.5	5.6	5.5	1.5
	1	5.4	3.7		6.2	4.1	4.0	9.8	5.7	2.8	5.4	1.4
2016	2	6.2	6.1	8.7	5.7	5.2	3.8	5.9	6.8	2.5	6.3	1.4
2016 <sup>+</sup>	3	4.5	4.6	8.4	5.7	5.9	4.3	0.4	6.0	4.0	5.7	0.9
	4	2.9	5.4	8.5	3.9	3.8	4.4	-6.6	5.6	9.9	6.1	
-	1	4.4	3.5	7.2	6.1	4.7	6.6	-1.3	4.9	5.2	4.9	1.4
2015*	2	5.3	5.9	6.9	5.8	6.7	5.2	-7.2	4.8	6.3	4.9	1.2
2017	3	5.1	2.6	6.0	5.4	6.1	4.5	-6.3	4.8	4.0	4.7	0.8
	4	6.3	4.2	4.6	7.0	6.2	3.7	-8.3	5.0	5.3	5.0	1.3

<sup>+</sup> Revised

<sup>\*</sup> Provisional

<sup>\*</sup> Provisional

### **Employment, Earnings and Consumer Prices**

#### **Overview**

 $\P$ his chapter presents analysis of the labour market over a five year period. During this period, the Government adopted strategies to create employment opportunities which include implementation of programmes for the youth, women and the persons with disabilities. These programmes include reservation of thirty per cent of all Government procurement opportunities for women, youth and persons with disabilities, devolution of some services and functions to counties coupled with increased resource allocation to the devolved units. This increased economic activities thereby impacting positively on employment creation.

3.2. Majority of the sectors recorded improved performance in employment in 2017. In total, there were 16.9 million jobs in 2017. The nominal annual average earnings in the modern sector per person increased from KSh 645,035.2 in 2016 to KSh 684,097.0 in 2017. Inflation as measured by Consumer Price Index increased from 6.3 per cent recorded in 2016 to 8.0 per cent in 2017. However, annual real average earnings per person decreased from KSh 379,968.9 to KSh 369,004.3 over the same period.

**Employment** 3.3. As indicated in Table 3.1, the number of persons engaged, excluding those engaged in rural small scale agriculture and pastoralist activities, rose by 5.6 per cent from 16.0 million in 2016 to 16.9 million in 2017. The number of new jobs created in the modern sector were 110.0 thousand in 2017 compared to 84.8 thousand jobs created in 2016. The new jobs included the extra personnel engaged in the public sector to serve in the Independent Electoral and Boundaries Commission (IEBC) and recruitment in the essential services which include health, education and security services. The informal sector which constituted 83.4 per cent of the total employment, created 787.8 thousand new jobs in 2017 as shown in Figure 3.1. The total number of self-employed and unpaid family workers within the modern sector was estimated to have increased from 132.5 thousand in 2016 to 139.4 thousand in 2017. The new jobs from the self-employed category could be attributed to business start ups by women and youth due to the ease in accessing low cost credit from government programmes such as the Uwezo Fund.

Table 3.1: Recorded Employment<sup>1</sup>, 2013 - 2017

'000 2017\* 2013 2014 2015 2016 Modern Establishments Wage Employees .. .. .. .. .. .. .. .. .. .. 2,283.1 2,370.2 2,478.0 2,656.6 2,553.5 Self-employed and unpaid family workers .. ... 83.8 103.0 123.2 132.5 139.4 Sub-Total 2,366.9 2,473.2 2,601.2 2,686.0 2,796.0 Informal Sector<sup>2</sup>......... 11,150.1 11,846.0 12,562.4 13,309.7 14,097.5 **TOTAL** 13,517.0 14,319.2 15,163.6 15,995.7 16,893.5

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup> Refers to employment stock as at 30<sup>th</sup> June and excludes small scale farming and pastoralist activities.

<sup>&</sup>lt;sup>2</sup> Estimated

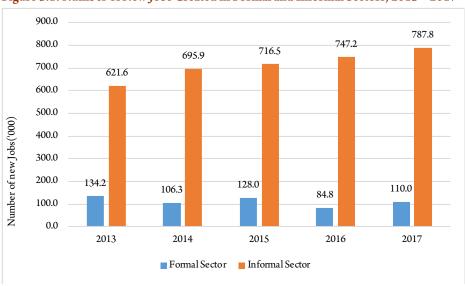


Figure 3.1: Number of New Jobs Created in Formal and Informal Sectors, 2013 – 2017

#### Formal Sector Employment

- 3.4. Analysis of wage employment in the modern sector by industry and sector from 2013 to 2017 is presented in Table 3.2. Overall wage employment in the modern sector increased by 4.0 per cent in 2017, which was higher than the 3.0 per cent growth registered in 2016.
- 3.5. **Private sector:** The wage employment in the private sector increased by 2.7 per cent to 1.9 million persons in 2017. However, the contribution of employment by the sector to formal sector employment declined slightly from 71.2 per cent in 2016 to 70.3 per cent in 2017. The private sector created 49.2 thousand new jobs compared to 57.6 thousand jobs created in 2016. During the period under review, employment in the Education sector grew by 7.7 per cent in 2017, and created 15.2 thousand new jobs.
- 3.6. Agriculture, forestry and fishing; Manufacturing and; Wholesale and retail trade and repair of motor vehicles and motor cycles industries contributed the highest wage employment with a share of 15.5, 14.8 and 13.4 per cent of the total private sector employment, respectively. Wholesale and retail trade; repair of motor vehicles and motorcycles sector registered 10.8 thousand new jobs. However, wage employment in the Agriculture, forestry and Fishing declined by 1.6 per cent. Similarly, wage employment in the Financial and insurance activities; and Mining and quarrying Service activities declined by 2.3 per cent and 1.4 per cent, respectively in the review period.
- 3.7. **Public sector:** Total employment in the public sector increased from 736.3 thousand persons in 2016 to 790.2 thousand persons in 2017, an increase of 7.3 per cent. This was an improvement compared to the 2.5 per cent increase realized in 2016. Public administration and defence; and Education were some of the activities that generated significant wage employment within the Public Sector with 49.1 thousand and 11.9 thousand jobs created in 2017. Human health and social work activities sector also registered 4.9 thousand new job opportunities over the same period.

Table 3.2: Wage Employment by Industry and Sector, 2013 - 2017

'000 Percentage 2013 2014 2015 2016 2017\* change PRIVATE SECTOR: Agriculture, forestry and fishing ...... 299.9 290.6 294.0 294.5 289.8 -1.6 8.7 12.2 13.8 14.6 14.4 -1.4 269.0 Manufacturing...... 253.4 261.3 274.3 276.9 0.9 Electricity, gas, steam and air conditioning supply ...... 1.1 0.9 0.9 1.0 1.0 0.0 Water supply; sewerage, waste management and remediation activities. 1.7 1.4 1.4 1.4 1.6 6.3 111.6 125.4 140.2 155.0 159.4 2.8 Construction..... 210.9 218.9 230.7 238.5 249.3 Wholesale and retail trade; repair of motor vehicles and motorcycles.... 4.5 Transportation and storage..... 58.8 62.1 64.8 67.8 68.9 1.6 Accommodation and food service activities................ 72.1 71.7 74.7 75.9 78.2 3.0 Information and communication ...... 90.6 97.3 103.8 108.7 115.2 6.0 Financial and insurance activities..... 63.5 58.1 62.7 65.0 -2.3 56.3 Real estate activities..... 3.8 3.9 4.0 4.1 4.2 2.4 60.7 67.6 Professional, scientific and technical activities..... 59.4 62.6 64.8 4.3 Administrative and support service activities................... 4.8 4.9 5.2 5.8 7.4 5.4 Public administration and defence; compulsory social security ... ... ... Education ...... 142.5 166.8 189.1 196.9 2.12.1 7.7 Human health and social work activities...... 80.1 85.2 91.3 95.7 102.2 6.8 4.3 4.3 4.5 4.6 4.8 4.3 Other service activities..... 29.2 30.5 31.7 33.2 34.7 4.5 Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use ...... 109.8 112.1 114.1 114.4 115.4 0.9 Activities of extraterritorial organizations and bodies ... ... ... ... 1.1 1.1 1.2 8.3 TOTAL PRIVATE SECTOR ..... 1,599.8 1,669.4 1,759.6 1,817.2 1,866.4 2.7 **PUBLIC SECTOR:** 42.7 42.9 42.2 0.2 42.6 42.3 Mining and quarrying ...... 0.7 0.6 0.6 0.6 0.6 0.0 Manufacturing..... 26.0 26.1 26.5 26.5 26.4 -0.4 17.9 Electricity, gas, steam and air conditioning supply ... ... ... ... 14.4 16.0 16.3 9.8 13.5 9.0 10.1 11.1 12.8 15.3 Water supply; sewerage, waste management and remediation activities. 8.1 18.1 7.7 7.9 8.0 8.5 6.3 Wholesale and retail trade; repair of motor vehicles and motorcycles ..... 1.3 1.3 1.3 1.3 1.5 15.4 17.6 17.8 19.0 Transportation and storage...... 17.2 18.0 5.6 1.4 1.4 1.4 1.5 1.6 6.7 Information and communication ...... 1.8 1.8 1.9 1.9 1.9 0.0 9.0 Financial and insurance activities..... 9.4 10.6 10.8 11.3 4.6 Real estate activities..... Professional, scientific and technical activities................ 5.8 5.9 5.9 5.9 6.2 5.1 Administrative and support service activities.................. 222.0 Public administration and defence; compulsory social security ... ... 227.0 262.4 222.4 231.3 13.4 Education ..... 280.8 302.4 318.3 326.7 338.6 3.6 Human health and social work activities..... 32.2 31.1 32.7 31.9 36.8 15.4 2.4 2.5 2.3 2.4 2.4 -4.2Other service activities ...... Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use ...... Activities of extraterritorial organizations and bodies ... ... ... ... TOTAL PUBLIC SECTOR ........ 683.3 700.8 718.4 736.3 790.2 7.3 TOTAL WAGE EMPLOYMENT 2,283.1 2,370.2 2,478.0 2,553.5 2,656.6 4.0

<sup>\*</sup> Provisional.

3.8. Wage employment in the Private Sector recorded a decelerated growth of 2.7 per cent in 2017 compared to a 3.3 per cent growth in 2016 as shown in Figure 3.2. Similarly, the number of new jobs created within self employment recorded a decelerated growth of 5.2 per cent from 7.5 per cent growth the previous year.

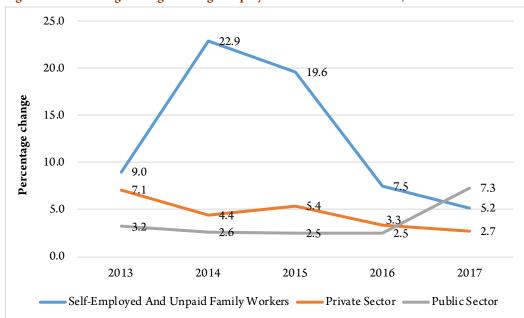


Figure 3.2: Percentage Changes in Wage Employment in the Formal Sector, 2013 - 2017

3.9. Table 3.3 presents wage employment in the public sector by type of employer from 2013 to 2017. Overall, employment in the public sector increased by 7.3 per cent in 2017 compared to a 2.5 per cent rise in 2016. Employment in parastatal bodies registered the highest rise of 16.5 per cent to 110.1 thousand persons in the review period. This was attributed to the extra personnel engaged by IEBC for the 2017 General Elections. Employment in the County governments continued to rise and reached 132.6 thousand persons in 2017. This increase was attributed to hiring of more personnel following the continued implementation of devolved functions such as Agricultural services, provision of healthcare and pre-primary education services. Teachers Service Commission (TSC), the largest employer in the public sector, registered a decelerated growth of 1.7 per cent in 2017 compared to an increase of 2.4 per cent in 2016. Employment in the Ministries, extra-budgetary institutions, and Corporations controlled by Government increased by 10.0 per cent and 3.4 per cent, respectively, in 2017. This increase was mainly due to recruitment in the essential services which include health, education and security services.

Table 3.3 Wage Employment in the Public Sector, 2013 - 2017

'000 Annual Percentage 2013 2014 2015 2016 2017\* Change Ministries and other exra-budgetary institutions<sup>1</sup> 179.0 180.9 177.7 179.7 10.0 197.6 Teachers Service Commission .... .. .. .. .. 272.5 281.7 290.7 297.8 302.9 1.7 92.5 93.5 94.2 94.5 110.1 16.5 Corporations controlled by the Government<sup>3</sup> ... 44.5 45.0 45.3 45.4 47.0 3.5 94.7 99.6 110.5 118.9 132.6 11.5 TOTAL 683.3 700.8 718.4 736.3 790.2 .. .. .. . 7.3

3.10. Table 3.4 presents wage employment by industry and sex for 2016 to 2017. The number of females in wage employment increased by 10.4 per cent to 970.8 thousands females and accounted for 36.5 per cent of the total wage employment. Majority of the female were employed in Education; Agriculture, forestry and fishing and, Public administration and defense; compulsory social security sectors contributing 27.1, 12.6 and 9.0 per cent of the total female employment, respectively. The number of males in the wage employment increased from 1,674.5 thousand to 1,685.8 thousand over the same period. The total number of casual employees was 647.4 thousand, with a proportional of 24.4 per cent to the total wage employment. Generally, female participation has shown an increasing trend across most sectors which could partly be attributed to the government's affirmative action on employment in public institutions.

<sup>\*</sup> Provisional.

<sup>&</sup>lt;sup>1</sup> Includes employees of Judiciary and Parliament.

 $<sup>^{2}\,\,</sup>$  Refers to Government wholly-owned corporations.

<sup>&</sup>lt;sup>3</sup> Refers to institutions where the Government has over 50 per cent shares but does not wholly own them.

Table 3.4: Wage Employment by Industry and Sex, 2016 and 2017

000 Total Male Female INDUSTRY 2016 2017\* 2016 2017\* 2016 2017\* 225.1 210.1 111.6 122.0 336.7 332.1 Mining and quarrying ...... 12.7 12.5 2.5 2.5 15.2 15.0 Manufacturing..... 252.1 241.3 48.7 62.0 300.8 303.3 12.8 13.8 5.1 18.9 Electricity, gas, steam and air conditioning supply ...... 4.5 17.3 Water supply; sewerage, waste management and remediation activities.... 9.9 10.9 2.8 3.6 12.7 14.5 48.1 52.6 163.0 167.9 114.9 115.3 Wholesale and retail trade; repair of motor vehicles and motorcycles ... ... 185.6 183.0 54.2 67.8 239.8 250.8 Transportation and storage...... 65.0 65.4 20.8 22.5 85.8 87.9 22.8 Accommodation and food service activities ... ... ... ... 54.6 55.1 24.7 77.4 79.8 Information and communication ................... 72.9 75.4 37.7 41.7 110.6 117.1 46.0 28.2 28.8 75.8 74.8 Financial and insurance activities............... 47.6 Real estate activities..... 3.2 1.0 1.0 4.1 4.2 3.1 19.3 70.7 73.8 Professional, scientific and technical activities..... 51.4 52.4 21.4 Administrative and support service activities...... 4.9 5.2 0.5 0.6 5.4 5.8 Public administration and defence; compulsory social security ...... 148.3 175.3 83.0 87.1 231.3 262.4 275.1 288.1 248.5 262.7 523.6 550.8 Education ..... Human health and social work activities..... 61.3 58.8 66.3 80.2 127.6 139 0 Arts, entertainment and recreation ................ 4.8 4.9 2.2 2.2 7.0 7.1 Other service activities..... 22.9 22.7 10.3 12.0 33.2 34.7 Activities of households as employers; un differentiated goods- and servicesproducing activities of households for own use ... ... ... 48.6 45.5 65.8 69.9 114.4 115.4 Activities of extraterritorial organizations and bodies...... 0.9 0.9 0.3 0.4 1.2 1.3 TOTAL .. .. .. 1,674.5 1,685.8 879.1 970.8 2,553.6 2,656.6 Of which: Regular .. .. .. 1,268.3 1,249.0 702.7 760.2 1,971.0 2,009.2 Casual .. .. .. 406.2 436.8 176.4 210.6

Wage Earnings in the Modern Sector

3.11. Total wage payments by industry in the modern sector from 2013 to 2017 is presented in Table 3.5. The wage payments relate to the basic salary and other allowances which are paid regularly to employees. Overall, nominal wage earnings rose by 10.3 per cent to KSh 1,817.3 billion in 2017 compared to an increase of 9.1 per cent in 2016. The private sector wage earnings went up by 10.9 per cent from KSh 1,143.6 billion in 2016, while wage earnings in public sector rose to 9.1 per cent from 503.5 billion in 2016 to 549.1 billion in 2017. The contribution of the public sector to the total wage earnings decreased marginally from 30.6 per cent in 2016 to 30.2 per cent in 2017.

Table 3.5: Wage Payments<sup>1</sup> by Industry and Sector, 2013 – 2017

KSh Million

Т					KSh Million
	2013	2014	2015	2016	2017*
PRIVATE SECTOR:					
Agriculture, forestry and fishing	65,576.7	67,038.5	74,769.2	80,709.7	87,915.3
Mining and quarrying	2,587.9	4,196.5	5,412.9	6,081.7	6,806.4
Manufacturing	81,131.6	91,390.3	105,013.8	114,079.8	126,924.4
Electricity, gas, steam and air conditioning supply	1,256.2	1,151.2	1,255.4	1,401.0	1,655.3
Water supply; sewerage, waste management and remediation activities	196.6	246.0	289.4	343.3	410.3
Construction	52,893.3	68,809.2	87,022.4	97,846.9	104,174.3
Wholesale and retail trade; repair of motor vehicles and motorcycles	103,613.3	113,726.5	130,920.7	147,356.5	169,098.0
Transportation and storage	57,024.4	65,458.0	76,319.4	81,540.8	89,873.1
Accommodation and food service activities	25,185.1	25,933.9	28,955.8	30,100.1	32,538.5
Information and communication	65,920.7	72,710.6	83,234.7	95,049.4	107,706.2
Financial and insurance activities	82,242.8	87,451.4	101,893.5	109,094.0	111,658.3
Real estate activities	870.2	926.7	1,040.8	1,088.1	1,187.0
Professional, scientific and technical activities	48,444.5	52,317.9	58,897.7	64,547.4	73,087.9
Administrative and support service activities	5,712.1	6,056.6	7,057.5	7,585.5	8,540.2
Public administration and defence; compulsory social security	_	-	-	, -	· -
Education	116,483.5	138,368.5	167,352.3	176,528.2	197,516.5
Human health and social work activities	49,486.4	55,701.6	65,323.5	73,170.6	84,684.
Arts, entertainment and recreation	2,194.7	2,290.4	2,575.8	2,786.4	3,092.0
Other service activities	16,903.3	19,993.6	23,446.0	25,982.3	30,332.7
Activities of households as employers; undifferentiated goods- and services-	,.	,	23,110.0	23,702.3	30,332.
producing activities of households for own use	19,464.2	20,853.2	23,219.8	24,687.6	26,952.
Activities of extraterritorial organizations and bodies	2,804.2	2,973.8	3,309.8	3,642.2	4,036.4
TOTAL PRIVATE SECTOR	799,991.7	897,594.4	1,047,310.4	1,143,621.3	1,268,191.2
PUBLIC SECTOR:					
Agriculture, forestry and fishing	12,996.1	13,877.2	16,926.7	17,572.5	17,828.
Mining and quarrying	197.3	197.9	237.2	250.0	261.4
Manufacturing	17,173.5	18,414.8	22,331.9	23,339.5	23,317.8
Electricity, gas, steam and air conditioning supply	14,540.6	16,007.3	21,088.0	22,019.9	23,667.4
Water supply; sewerage, waste management and remediation activities	4,172.5	5,248.6	6,375.2	7,165.5	8,063.
Construction	9,190.8	4,182.7	5,257.6	5,669.8	6,171.2
Wholesale and retail trade; repair of motor vehicles and motorcycles	1,780.2	2,039.3	1,436.1	1,589.6	1,827.
Transportation and storage	19,640.2	21,476.4	26,645.6	28,854.2	30,960.8
Accommodation and food service activities	1,177.6	1,413.7	1,844.0	2,133.8	2,463.2
Information and communication	1,031.0	1,127.9	1,363.7	1,424.0	1,457.
Financial and insurance activities	12,282.3	13,394.3	18,097.5	18,822.0	19,175.2
Real estate activities	_	-	-	-	-
Professional, scientific and technical activities	2,873.3	3,077.3	3,732.9	3,886.0	4,147.
Administrative and support service activities	2,070.0	5,677.5	-	-	1,2 1,7 %
Public administration and defence; compulsory social security	143,861.7	160,274.4	116,046.6	127,507.2	146,658.8
	106,638.2	123,557.2	182,027.0		•
Education	26,009.9	27,631.9	·	202,778.1	215,686.7
Human health and social work activities	1,379.0	1,522.8	36,506.1	38,639.1	45,679.9
Arts, entertainment and recreation	1,3/9.0	1,344.8	1,827.2	1,850.0	1,783.3
Other service activities	-	-	-	-	-
producing activities of households for own use	-	-	-	-	-
Activities of extraterritorial organizations and bodies	_	_	_	_	_
	374,944.2	413,443.7	461,743.3	503,501.1	549,148.8
TOTAL PUBLIC SECTOR	J/T,2TT.4				

<sup>\*</sup> Provisional

 $<sup>^{1}\,</sup>$  Annualised June wages.

3.12. Annual wage payments in the public sector by type of employer are presented in Table 3.6. Wage earnings in the County governments recorded the highest increase of 15.0 per cent in earnings in the public sector; rising from KSh 96.4 billion in 2016 to KSh 110.9 billion in 2017. Similarly, total wage payments for the Ministries and other extra-budgetary institutions increased by 13.2 per cent from KSh 95.4 billion in 2016 to KSh 108.0 billion in 2017. Wage payments by TSC rose by 4.1 per cent to KSh 180.9 billion and accounted for 32.9 per cent of the total wage payments by the public sector.

Table 3.6: Total Wage Payments in the Public Sector, 2013 - 2017

					KSh Million
	2013	2014	2015	2016	2017*
Ministries and other extra-budgetary institutions <sup>1</sup>	79,009.4	84,981.0	90,275.2	95,402.6	107,989.0
Teachers Service Commission	130,427.4	145,407.0	160,720.4	173,721.1	180,901.3
Parastatal Bodies <sup>2</sup>	66,217.9	74,013.5	78,704.7	84,350.7	91,521.0
Majority Control by the Government $^3$	42,115.6	47,073.7	50,057.4	53,648.3	57,846.6
County governments	57,174.0	61,968.3	81,985.6	96,378.3	110,890.9
TOTAL PUBLIC SECTOR	374,944.3	413,443.7	461,743.3	503,501.1	549,148.8

<sup>\*</sup> Provisional

3.13. Annual average wage earnings per employee for the period 2013 to 2017 are presented in Table 3.7. Overall, annual average earnings increased by 6.1 per cent to KSh 684,097.0 in 2017 compared to the 5.9 per cent increase in 2016, translating to KSh 57,008.1 per month. The average earnings in the private sector increased by 8.0 per cent compared to 1.6 per cent in the public sector in the review period. Average earnings for workers in the private sector that recorded the highest increases were Mining and quarrying; Water supply; sewerage, waste management and remediation activities; and Electricity, gas, steam and air conditioning supply at 12.9 and 11.9 per cent, respectively, in 2017.

3.14. Table 3.8 presents percentage changes in wage employment and average earnings for the period 2012/2017 and 2016/2017. During the five year period, total wage employment rose by 23.2 per cent with wage employment in the private sector rising by 25.0 per cent, while that of the public sector went up by 19.3 per cent. In the private sector the highest increase in wage employment was registered in education at 98.4 per cent. This was followed by mining and quarrying; and construction activities with growths of 73.5 and 61.5 per cent, respectively. Average earnings in the economy have risen by 54.3 per cent over the five year period with public sector earnings rising by 43.3 per cent compared to 59.8 per cent for the private sector. In the public sector, employees in the County Government recorded a large increase of 152.4 per cent.

3.15. Table 3.9 presents the real average earnings per employee by sector adjusted for inflation. Overall, real average earnings declined by 2.9 per cent in 2017, compared an increase of 0.1 per cent recorded in 2016. This could be attributed to increase in inflation rates over the period. In the public sector, real average earnings declined by 6.9 per cent and fell by 1.1 per cent in the private sector.

 $<sup>^{1}\ \</sup> Includes\ employees\ of\ Judiciary, Parliament, constitutional\ and\ Independent\ offices$ 

<sup>&</sup>lt;sup>2</sup> Refers to Government wholly-owned corporations.

<sup>&</sup>lt;sup>3</sup> Refers to institutions where the Government has over 50 per cent shares but does not wholly own them.

Table 3.7: Average Annual Wage Earnings per Employee<sup>1</sup>, 2013 – 2017

	П	1			KSł
	2013	2014	2015	2016	2017*
PRIVATE SECTOR:					
Agriculture, forestry and fishing	218,637.7	230,717.7	254,274.7	274,049.3	303,399.8
Mining and quarrying	297,797.2	343,893.9	392,039.5	417,498.1	471,487.3
Manufacturing	320,187.1	349,733.7	390,406.1	415,959.4	458,321.7
Electricity, gas, steam and air conditioning supply	1,125,666.0	1,247,238.0	1,399,604.0	1,463,985.8	1,613,312.0
Water  supply; sewerage,  waste  management  and  remediation  activities	142,540.0	176,322.0	201,136.0	210,354.0	235,386.0
Construction	473,758.8	548,910.1	620,879.3	631,213.1	653,355.8
$Who less le \ and \ retail \ trade; repair \ of motor \ vehicles \ and \ motor cycles$	491,409.9	519,429.6	567,591.9	617,753.6	678,269.3
Transportation and storage	969,506.0	1,053,344.1	1,177,969.1	1,203,429.8	1,304,985.7
Accommodation and food service activities	349,259.4	361,473.9	387,737.5	396,554.6	415,943.8
Information and communication	727,472.8	747,113.9	802,169.8	874,105.5	934,730.5
Financial and insurance activities.	1,461,808.8	1,504,281.5	1,624,448.0	1,677,517.7	1,759,562.7
Real estate activities	228,154.6	238,649.9	260,652.5	265,659.8	281,424.2
Professional, scientific and technical activities.	816,100.0	861,867.2	940,331.7	996,639.9	1,081,166.6
Administrative and support service activities	1,181,397.3	1,236,542.6	1,363,245.9	1,393,880.0	1,484,227.4
Public administration and defence; compulsory social security	-,,	-	-,010,-101,	-	-,,
Education	817,809.1	830,085.0	885,101.5	896,491.7	931,440.0
Human health and social work activities.	·	·			
	617,576.4	654,012.7	715,536.5	764,256.0	828,851.1
Arts, entertainment and recreation	513,856.2	530,300.4	575,076.5	601,034.2	641,752.4
Other service activities.	577,929.2	655,765.5	739,900.7	783,612.9	874,366.6
Activities of households as employers; un differentiated goods- and services- producing activities of households for own use	177,267.8	186,011.9	203,473.4	215,885.3	233,630.7
Activities of extraterritorial organizations and bodies	2,613,378.0	2,683,940.0	2,883,096.0	2,992,746.0	3,170,786.8
TOTAL PRIVATE SECTOR	500,065.8	537,670.4	595,211.6	629,323.6	679,489.2
UBLIC SECTOR:					
Agriculture, forestry and fishing	347,891.6	367,655.6	394,286.8	416,034.3	421,089.2
Mining and quarrying	323,896.0	346,104.0	373,538.0	397,378.9	406,454.8
Manufacturing	752,483.8	797,183.7	843,573.8	881,901.1	881,745.9
Electricity, gas, steam and air conditioning supply	1,231,708.0	1,261,782.0	1,315,696.0	1,346,867.1	1,321,608.8
Water supply; sewerage, waste management and remediation activities	590,152.0	658,438.0	629,840.0	647,288.6	629,031.0
Construction	577,088.0	617,720.0	668,740.0	712,739.5	729,019.5
Wholesale and retail trade; repair of motor vehicles and motorcycles	910,344.7	1,018,154.2	1,082,241.8	1,196,994.4	1,260,092.0
Transportation and storage	1 208 010 1	1,382,681.1	1,500,059.7	1,600,876.0	1,627,290.2
	1,270,010.1	1,302,001.1			
-	1,298,010.1 991,838.0	1,126,668.0	1,293,140.0	1,462,490.4	
Accommodation and food service activities	991,838.0	1,126,668.0	1,293,140.0 728.877.8	1,462,490.4 763.519.9	1,587,145.3
Accommodation and food service activities	991,838.0 645,169.5	1,126,668.0 693,358.3	728,877.8	763,519.9	1,587,145.3 764,465.6
Accommodation and food service activities	991,838.0	1,126,668.0			1,587,145.3
Accommodation and food service activities	991,838.0 645,169.5 1,552,072.0	1,126,668.0 693,358.3 1,604,205.8	728,877.8 1,709,888.3	763,519.9 1,749,415.9 -	1,587,145.3 764,465.6 1,703,860.6
Accommodation and food service activities.  Information and communication  Financial and insurance activities.  Real estate activities.  Professional, scientific and technical activities.	991,838.0 645,169.5	1,126,668.0 693,358.3	728,877.8	763,519.9	1,587,145.3 764,465.6
Accommodation and food service activities	991,838.0 645,169.5 1,552,072.0 - 560,096.4	1,126,668.0 693,358.3 1,604,205.8 - 590,358.0	728,877.8 1,709,888.3 - 628,540.2	763,519.9 1,749,415.9 - 659,876.6	1,587,145.3 764,465.6 1,703,860.6 - 666,556.1
Accommodation and food service activities	991,838.0 645,169.5 1,552,072.0 - 560,096.4 - 461,100.8	1,126,668.0 693,358.3 1,604,205.8 - 590,358.0 - 481,382.8	728,877.8 1,709,888.3 - 628,540.2 - 522,748.8	763,519.9 1,749,415.9 - 659,876.6 - 551,311.1	1,587,145.3 764,465.6 1,703,860.6 - 666,556.1 - 558,864.2
Accommodation and food service activities	991,838.0 645,169.5 1,552,072.0 - 560,096.4 - 461,100.8 475,306.4	1,126,668.0 693,358.3 1,604,205.8 - 590,358.0 - 481,382.8 524,732.9	728,877.8 1,709,888.3 - 628,540.2 - 522,748.8 571,890.4	763,519.9 1,749,415.9 - 659,876.6 - 551,311.1 620,606.3	1,587,145.3 764,465.6 1,703,860.6 - 666,556.1 - 558,864.2 636,954.3
Accommodation and food service activities	991,838.0 645,169.5 1,552,072.0 - 560,096.4 - 461,100.8	1,126,668.0 693,358.3 1,604,205.8 590,358.0 481,382.8 524,732.9 1,005,817.6	728,877.8 1,709,888.3 - 628,540.2 - 522,748.8	763,519.9 1,749,415.9 - 659,876.6 - 551,311.1 620,606.3 1,212,243.5	1,587,145.3 764,465.6 1,703,860.6 - 666,556.1 - 558,864.2
Accommodation and food service activities	991,838.0 645,169.5 1,552,072.0 - 560,096.4 - 461,100.8 475,306.4	1,126,668.0 693,358.3 1,604,205.8 - 590,358.0 - 481,382.8 524,732.9	728,877.8 1,709,888.3 - 628,540.2 - 522,748.8 571,890.4	763,519.9 1,749,415.9 - 659,876.6 - 551,311.1 620,606.3	1,587,145.3 764,465.6 1,703,860.6 - 666,556.1 - 558,864.2 636,954.3
Accommodation and food service activities	991,838.0 645,169.5 1,552,072.0 - 560,096.4 - 461,100.8 475,306.4 915,027.2	1,126,668.0 693,358.3 1,604,205.8 590,358.0 481,382.8 524,732.9 1,005,817.6	728,877.8 1,709,888.3 - 628,540.2 - 522,748.8 571,890.4 1,116,394.3	763,519.9 1,749,415.9 - 659,876.6 - 551,311.1 620,606.3 1,212,243.5	1,587,145.3 764,465.6 1,703,860.6 - 666,556.1 - 558,864.2 636,954.3 1,241,942.9
Accommodation and food service activities	991,838.0 645,169.5 1,552,072.0 - 560,096.4 - 461,100.8 475,306.4 915,027.2	1,126,668.0 693,358.3 1,604,205.8 590,358.0 481,382.8 524,732.9 1,005,817.6	728,877.8 1,709,888.3 - 628,540.2 - 522,748.8 571,890.4 1,116,394.3	763,519.9 1,749,415.9 - 659,876.6 - 551,311.1 620,606.3 1,212,243.5	1,587,145.3 764,465.6 1,703,860.6 - 666,556.1 - 558,864.2 636,954.3 1,241,942.9
Accommodation and food service activities	991,838.0 645,169.5 1,552,072.0 - 560,096.4 - 461,100.8 475,306.4 915,027.2	1,126,668.0 693,358.3 1,604,205.8 590,358.0 481,382.8 524,732.9 1,005,817.6	728,877.8 1,709,888.3 - 628,540.2 - 522,748.8 571,890.4 1,116,394.3	763,519.9 1,749,415.9 - 659,876.6 - 551,311.1 620,606.3 1,212,243.5	1,587,145.3 764,465.6 1,703,860.6 - 666,556.1 - 558,864.2 636,954.3 1,241,942.9
Accommodation and food service activities	991,838.0 645,169.5 1,552,072.0 - 560,096.4 - 461,100.8 475,306.4 915,027.2	1,126,668.0 693,358.3 1,604,205.8 590,358.0 481,382.8 524,732.9 1,005,817.6	728,877.8 1,709,888.3 - 628,540.2 - 522,748.8 571,890.4 1,116,394.3	763,519.9 1,749,415.9 - 659,876.6 - 551,311.1 620,606.3 1,212,243.5	1,587,145.3 764,465.6 1,703,860.6 - 666,556.1 - 558,864.2 636,954.3 1,241,942.9
Accommodation and food service activities	991,838.0 645,169.5 1,552,072.0 - 560,096.4 - 461,100.8 475,306.4 915,027.2	1,126,668.0 693,358.3 1,604,205.8 590,358.0 481,382.8 524,732.9 1,005,817.6 715,992.0	728,877.8 1,709,888.3 - 628,540.2 - 522,748.8 571,890.4 1,116,394.3	763,519.9 1,749,415.9 - 659,876.6 - 551,311.1 620,606.3 1,212,243.5	1,587,145.3 764,465.6 1,703,860.6 - 666,556.1 - 558,864.2 636,954.3 1,241,942.9
Accommodation and food service activities	991,838.0 645,169.5 1,552,072.0 - 560,096.4 - 461,100.8 475,306.4 915,027.2	1,126,668.0 693,358.3 1,604,205.8 590,358.0 481,382.8 524,732.9 1,005,817.6	728,877.8 1,709,888.3 - 628,540.2 - 522,748.8 571,890.4 1,116,394.3	763,519.9 1,749,415.9 - 659,876.6 - 551,311.1 620,606.3 1,212,243.5	1,587,145.3 764,465.6 1,703,860.6 - 666,556.1 - 558,864.2 636,954.3 1,241,942.9
Accommodation and food service activities	991,838.0 645,169.5 1,552,072.0 - 560,096.4 - 461,100.8 475,306.4 915,027.2 665,322.0	1,126,668.0 693,358.3 1,604,205.8 590,358.0 481,382.8 524,732.9 1,005,817.6 715,992.0	728,877.8 1,709,888.3 - 628,540.2 - 522,748.8 571,890.4 1,116,394.3 745,206.0 -	763,519.9 1,749,415.9 - 659,876.6 - 551,311.1 620,606.3 1,212,243.5 774,061.8	1,587,145.3 764,465.6 1,703,860.6 - 666,556.1 - 558,864.2 636,954.3 1,241,942.9 771,983.7
Accommodation and food service activities	991,838.0 645,169.5 1,552,072.0 - 560,096.4 - 461,100.8 475,306.4 915,027.2 665,322.0 - - - - -	1,126,668.0 693,358.3 1,604,205.8 - 590,358.0 - 481,382.8 524,732.9 1,005,817.6 715,992.0	728,877.8 1,709,888.3 - 628,540.2 - 522,748.8 571,890.4 1,116,394.3 745,206.0 642,743.1	763,519.9 1,749,415.9 - 659,876.6 - 551,311.1 620,606.3 1,212,243.5 774,061.8 683,861.0	1,587,145.3 764,465.6 1,703,860.6 - 666,556.1 - 558,864.2 636,954.3 1,241,942.9 771,983.7 694,981.1
Accommodation and food service activities	991,838.0 645,169.5 1,552,072.0 - 560,096.4 - 461,100.8 475,306.4 915,027.2 665,322.0 - - - - -	1,126,668.0 693,358.3 1,604,205.8 - 590,358.0 - 481,382.8 524,732.9 1,005,817.6 715,992.0	728,877.8 1,709,888.3 - 628,540.2 - 522,748.8 571,890.4 1,116,394.3 745,206.0 642,743.1	763,519.9 1,749,415.9 - 659,876.6 - 551,311.1 620,606.3 1,212,243.5 774,061.8 683,861.0	1,587,145.3 764,465.6 1,703,860.6 666,556.1 558,864.2 636,954.3 1,241,942.9 771,983.7
Accommodation and food service activities	991,838.0 645,169.5 1,552,072.0 - 560,096.4 - 461,100.8 475,306.4 915,027.2 665,322.0 - - - 548,731.4 514,630.7	1,126,668.0 693,358.3 1,604,205.8 - 590,358.0 - 481,382.8 524,732.9 1,005,817.6 715,992.0 - - 589,984.8 553,137.7	728,877.8 1,709,888.3 - 628,540.2 - 522,748.8 571,890.4 1,116,394.3 745,206.0 642,743.1 608,991.7	763,519.9 1,749,415.9 - 659,876.6 - 551,311.1 620,606.3 1,212,243.5 774,061.8 683,861.0 645,035.2	1,587,145.3 764,465.6 1,703,860.6 - 666,556.1 - 558,864.2 636,954.3 1,241,942.9 771,983.7 - - - 694,981.1 684,097.0
Accommodation and food service activities	991,838.0 645,169.5 1,552,072.0 - 560,096.4 - 461,100.8 475,306.4 915,027.2 665,322.0 548,731.4 514,630.7	1,126,668.0 693,358.3 1,604,205.8 - 590,358.0 - 481,382.8 524,732.9 1,005,817.6 715,992.0 589,984.8 553,137.7	728,877.8 1,709,888.3 - 628,540.2 - 522,748.8 571,890.4 1,116,394.3 745,206.0 642,743.1 608,991.7	763,519.9 1,749,415.9 - 659,876.6 - 551,311.1 620,606.3 1,212,243.5 774,061.8 683,861.0 645,035.2	1,587,145.3 764,465.6 1,703,860.6 666,556.1 558,864.2 636,954.3 1,241,942.9 771,983.7 - 694,981.1 684,097.0
Accommodation and food service activities	991,838.0 645,169.5 1,552,072.0 - 560,096.4 - 461,100.8 475,306.4 915,027.2 665,322.0 548,731.4 514,630.7	1,126,668.0 693,358.3 1,604,205.8 - 590,358.0 - 481,382.8 524,732.9 1,005,817.6 715,992.0 589,984.8 553,137.7	728,877.8 1,709,888.3 - 628,540.2 - 522,748.8 571,890.4 1,116,394.3 745,206.0 642,743.1 608,991.7  508,131.9 552,843.3	763,519.9 1,749,415.9 - 659,876.6 - 551,311.1 620,606.3 1,212,243.5 774,061.8 683,861.0 645,035.2  530,799.0 583,393.3	1,587,145.3 764,465.6 1,703,860.6 - 666,556.1 - 558,864.2 636,954.3 1,241,942.9 771,983.7 694,981.1 684,097.0 546,428.5 597,282.3
Accommodation and food service activities	991,838.0 645,169.5 1,552,072.0 - 560,096.4 - 461,100.8 475,306.4 915,027.2 665,322.0 548,731.4 514,630.7  441,289.9 478,625.5 715,826.2	1,126,668.0 693,358.3 1,604,205.8 - 590,358.0 - 481,382.8 524,732.9 1,005,817.6 715,992.0 - 589,984.8 553,137.7 469,692.7 516,195.1 791,393.2	728,877.8 1,709,888.3 - 628,540.2 - 522,748.8 571,890.4 1,116,394.3 745,206.0 642,743.1 608,991.7  508,131.9 552,843.3 835,786.7	763,519.9 1,749,415.9 - 659,876.6 - 551,311.1 620,606.3 1,212,243.5 774,061.8 683,861.0 645,035.2  530,799.0 583,393.3 893,064.1	1,587,145.3 764,465.6 1,703,860.6

<sup>\*</sup> Provisional.

 $<sup>^1\</sup> Annualised June\ earnings$ 

 $<sup>^{2}\,</sup>$  Refers to Government wholly-owned corporations.

 $<sup>^3\,\,</sup>$  Refers to institutions where the Government has over 50 per cent shareholding but does not fully own them.

# **Economic Survey 2018**

Table 3.8: Percentage changes in Wage Employment and Average Earnings<sup>1</sup>, 2017/2012 and 2017/2016

	EMPLOYMENT		AVERAGE EARNINGS		
	2017/2012*	2017/2016*	2017/2012*	2017/2016*	
PRIVATE SECTOR:					
Agriculture, forestry and fishing	-1.9	-1.6	66.6	10.7	
Mining and quarrying	73.5	-1.4	91.7	12.9	
Manufacturing	12.8	0.9	69.4	10.2	
Electricity, gas, steam and air conditioning supply	-9.1	0.0	68.5	10.2	
Water supply; sewerage, waste management and remediation activities	30.8	6.3	86.8	11.9	
Construction	61.5	2.8	58.9	3.5	
Wholesale and retail trade; repair of motor vehicles and motorcycles	26.5	4.5	59.7	9.8	
Transportation and storage	18.6	1.6	58.9	8.4	
Accommodation and food service activities	15.7	3.0	30.8	4.9	
Information and communication	37.3	6.0	45.8	6.9	
Financial and insurance activities	23.8	-2.3	39.9	4.9	
Real estate activities.	13.5	2.4	43.1	5.9	
Professional, scientific and technical activities	18.8	4.3	57.7	8.5	
Administrative and support service activities.	28.9	7.4	51.3	6.5	
Public administration and defence; compulsory social security	20.7	7.4	31.3	0.5	
Education	98.4	7.7	22.7	3.9	
		7.7	33.7		
Human health and social work activities	38.5	6.8	52.4	8.5	
Arts, entertainment and recreation	20.0	4.3	46.8	6.8	
Other service activities	23.0	4.5	77.8	11.6	
Activities of households as employers; un differentiated goods- and services-producing activities of	9.6	0.0	52.0	9.2	
households for own use	8.6	0.9	52.8	8.2	
Activities of extraterritorial organizations and bodies	30.0	8.3	37.9	5.9 <b>8.0</b>	
TOTAL PRIVATE SECTOR PUBLIC SECTOR:	25.0	2.7	59.8	8.0	
	0.2	0.2	54.6	1.2	
Agriculture, forestry and fishing	0.2	0.2	54.6	1.2	
Mining and quarrying	-14.3	0.0	62.6	2.3	
Manufacturing	3.1	-0.4	46.0	0.0	
Electricity, gas, steam and air conditioning supply	35.6	9.8	33.1	-1.9	
Water supply; sewerage, waste management and remediation activities	77.8	15.3	43.6	-2.8	
Construction	-51.1	6.3	62.4	2.3	
Wholesale and retail trade; repair of motor vehicles and motorcycles	66.7	15.4	7.4	5.3	
Transportation and storage	11.1	5.6	60.7	1.6	
Accommodation and food service activities	23.1	6.7	118.1	8.5	
Information and communication	5.6	0.0	48.1	0.1	
Financial and insurance activities	9.7	4.6	37.2	-2.6	
Real estate activities	-	-	-	-	
Professional, scientific and technical activities	6.9	5.1	48.9	1.0	
Administrative and support service activities	-	-	-	-	
Public administration and defence; compulsory social security	26.5	13.4	-1.6	1.4	
Education	21.8	3.6	87.0	2.6	
Human health and social work activities	19.1	15.4	76.9	2.4	
Arts, entertainment and recreation	-4.2	-4.2	43.3	-0.3	
Other service activities	-	-	-	-	
Activities of households as employers; undifferentiated goods- and services-producing activities of					
households for own use	-	-	-	-	
Activities of extraterritorial organizations and bodies	-	-	-	-	
TOTAL PUBLIC SECTOR	19.3	7.3	43.3	1.6	
TOTAL PRIVATE AND PUBLIC SECTOR	23.2	4.0	54.3	6.1	
MEMORANDUM ITEMS IN PUBLIC SECTOR:					
Ministries and other extra-budgetary institutions	-11.2	10.0	37.1	2.9	
Teachers Service Commission	13.2	1.7	38.7	2.4	
Parastatal Bodies <sup>2</sup>	21.4	16.5	17.8	-6.9	
Majority Control by the Government <sup>3</sup>	7.7	3.4	32.0	4.3	
	251.9	3.4 11.6	152.4		
County governments				3.1	
TOTAL PUBLIC SECTOR	19.3	7.3	43.3	1.6	

<sup>\*</sup> Provisional.

<sup>&</sup>lt;sup>1</sup> Annualised June earnings

 $<sup>^{2}\,\,</sup>$  Refers to Government wholly-owned corporations.

 $<sup>^3\,\,</sup>$  Refers to institutions where the Government has over 50 per cent shareholding but does not fully own them.

Table 3.9: Estimated Real Average Wage Earnings per Employee<sup>1</sup>, 2013–2017.

					KSh
	2013	2014	2015	2016	2017*
PRIVATE SECTOR:					
Agriculture, forestry and fishing	156,628.5	153,904.1	158,466.1	161,433.4	163,654.9
Mining and quarrying	213,337.1	229,400.2	244,322.3	245,934.3	254,321.9
Manufacturing	229,376.8	233,295.8	243,304.3	245,027.9	247,220.3
Electricity, gas, steam and air conditioning supply	806,408.8	831,991.2	872,244.8	862,385.6	870,226.0
Water supply; sewerage, waste management and remediation activities	102,113.3	117,618.6	125,349.6	123,912.6	126,968.0
Construction	339,393.1	366,159.8	386,937.1	371,826.7	352,422.4
Wholesale and retail trade; repair of motor vehicles and motorcycles	352,038.0	346,494.3	353,728.0	363,898.2	365,860.8
Transportation and storage	694,538.3	702,651.0	734,120.1	708,900.7	703,913.8
Accommodation and food service activities	250,203.7	241,127.3	241,641.2	233,597.2	224,361.5
Information and communication	521,149.7	498,375.0	499,918.9	514,906.7	504,196.8
Financial and insurance activities	1,047,216.0	1,003,456.4	1,012,369.4	988,170.2	949,114.2
Real estate activities	163,446.2	159,195.5	162,440.8	156,491.4	151,801.2
Professional, scientific and technical activities	584,640.7	574,923.1	586,022.5	587,087.6	583,184.9
Administrative and support service activities	846,333.8	824,856.6	849,586.1	821,088.6	800,597.3
Public administration and defence; compulsory social security	-	-	-	-	-
Education	585,865.1	553,722.2	551,602.6	528,093.6	502,421.9
Human health and social work activities	442,421.7	436,270.2	445,928.3	450,197.9	447,085.1
Arts, entertainment and recreation	368,118.2	353,745.8	358,392.4	354,049.4	346,163.4
Other service activities	414,019.1	437,439.5	461,112.2	461,600.5	471,636.3
Activities of households as employers; un differentiated goods- and services-	111,015.1	137, 137.3	101,112.2	101,000.3	171,030.3
producing activities of households for own use	126,991.8	124,082.4	126,806.3	127,170.9	126,021.2
Activities of extraterritorial organizations and bodies	1,872,181.4	1,790,367.6	1,796,769.3	1,762,927.7	1,710,333.3
TOTAL PRIVATE SECTOR	358,239.0	358,662.1	370,940.8	370,713.7	366,518.8
PUBLIC SECTOR:	338,239.0	338,002.1	370,940.8	3/0,/13./	300,318.8
Agriculture, forestry and fishing	249,223.9	245,250.9	245,722.8	245,072.1	227,137.0
Mining and quarrying	232,033.8	230,874.5	232,792.0	234,082.7	219,243.1
Manufacturing	539,067.1	531,774.9	525,722.2	519,498.8	475,616.7
S .	882,375.5	841,693.0	819,952.6	793,394.8	712,880.3
Electricity, gas, steam and air conditioning supply			-	381,296.3	
Water supply; sewerage, waste management and remediation activities	422,775.3	439,222.2	392,521.5		339,301.5
Construction	413,416.4	412,060.6	416,764.3	419,851.3	393,235.6
Wholesale and retail trade; repair of motor vehicles and motorcycles	652,156.1	679,177.0	674,462.0	705,109.8	679,697.9
Transportation and storage	929,873.3	922,340.8	934,849.6	943,023.1	877,765.9
Accommodation and food service activities	710,536.6	751,562.9	805,895.6	861,504.7	856,111.6
Information and communication	462,188.9	462,516.4	454,242.7	449,764.3	412,355.4
Financial and insurance activities	1,111,879.1	1,070,112.6	1,065,616.5	1,030,523.0	919,068.2
Real estate activities	-	-	-	-	-
Professional, scientific and technical activities	401,243.9	393,808.3	391,711.5	388,711.4	359,542.6
Administrative and support service activities	-	-	-	-	-
Public administration and defence; compulsory social security	330,325.1	321,114.5	325,781.4	324,759.1	301,453.2
Education	340,501.8	350,032.0	356,406.8	365,578.6	343,575.3
Human health and social work activities	655,510.6	670,947.6	695,746.2	714,092.6	669,908.3
Arts, entertainment and recreation	476,625.8	477,614.6	464,418.5	455,974.2	416,410.6
Other service activities	-	-	-	-	-
Activities of households as employers; un differentiated goods- and services-	-	_	-	-	_
producing activities of households for own use					
Activities of extraterritorial organizations and bodies	-	-	-	-	-
TOTAL PUBLIC SECTOR	393,102.2	393,559.3	400,562.8	402,839.9	374,875.2
TOTAL PRIVATE AND PUBLIC SECTOR	368,673.0	368,979.9	379,528.7	379,968.9	369,004.3
MEMORANDUM ITEMS IN PUBLIC SECTOR:					
Ministries and other extra-budgetary institutions	316,132.9	313,316.5	316,672.0	312,676.1	294,745.4
Teachers Service Commission	342,879.5	344,336.7	344,536.5	343,657.7	322,176.1
Parastatal Bodies <sup>2</sup>	512,806.2	527,912.2	520,869.2	526,074.5	448,522.8
	·	697,854.6	688,544.3	695,425.3	664,049.7
Majority Control by the Government <sup>3</sup>	677.8857				
Majority Control by the Government <sup>3</sup>	677,885.7 432,352.7	414,901.3	462,214.6	477,660.2	451,062.2

 $<sup>^{1}</sup> Average\ earnings\ adjusted\ for\ the\ rise\ in\ consumer\ prices (Base\ year\ 2009).\ Annualised\ June\ earnings\ deflated\ by\ June\ CPI$ 

 $<sup>^{2}\,</sup>$  Refers to Government wholly-owned corporations.

 $<sup>^3</sup>$  Refers to institutions where the Government has over 50 per cent shareholding but does not fully own them.

3.16. Overall, wage employment grew by 4.0 per cent in 2017 compared to 3.1 per cent in 2016. The 'year on year' inflation in June 2017 was 9.2 per cent, up from 5.8 per cent the previous year. Real average earnings declined by 2.9 per cent compared to an increase of 0.1 per cent in 2016 mainly due to the increase in inflation.

Table 3.10: Changes in Wage Employment, Prices and Real Earnings, 2013 - 2017

					Per cent
	2013	2014	2015	2016	2017*
Wage employment	6.0	3.8	4.5	3.1	4.0
Average earnings at current prices	16.1	7.5	10.1	5.9	6.1
Consumer prices $(Inflation rates)^1 \dots \dots$	4.9	7.4	7.0	5.8	9.2
Real average earnings	10.7	0.1	2.9	0.1	-2.9

<sup>\*</sup> Provisional

**Informal sector** 3.17. The informal sector is characterized by small scale activities, easy entry and exit due to **employment** fewer regulations, skills gained from vocational intuitions, less capital investment, limited job security and also self-employment. This sector however excludes illegal activities such as drug trafficking and others. Over the years, it has expanded into activities of manufacturing and information, communication and technology.

> 3.18. Table 3.11, gives a breakdown of employment in the informal sector by broad economic activities over the past five years. During the review period, the informal sector employment grew by 6.0 per cent from 13.3 million persons in 2016 to 14.1 million persons in 2017 with rural areas accounting for almost two thirds of the total jobs.

Table 3.11: Number of Persons Engaged in the Informal Sector by Activity<sup>1</sup>, 2013 - 2017

					000
Activity	2013	2014	2015	2016	2017*
Manufacturing	2,233.7	2,364.9	2,545.3	2,710.2	2,841.3
Construction	292.2	307.3	320.6	337.1	363.0
Wholesale and Retail Trade, Hotels and Restaurants. $ $	6,693.4	7,120.4	7,510.9	7,946.7	8,445.5
Transport and Communications <sup>2</sup>	345.3	369.5	392.6	417.2	439.7
Community, Social and Personal Services	1,084.2	1,152.1	1,219.5	1,293.4	1,370.2
Others	501.3	531.8	573.5	605.1	637.8
TOTAL	11,150.1	11,846.0	12,562.4	13,309.7	14,097.5
Urban	3,973.7	4,208.1	4,458.0	4,709.9	4,999.8
Rural	7,176.4	7,637.9	8,104.4	8,599.8	9,097.7

<sup>\*</sup> Provisional

**Bargaining** 

**Minimum** 3.19. On Labour Day 2017, the Government announced new statutory minimum wage rates Wages and that reflected a 18.0 per cent increase in the wages specified in both the regulation of wages **Collective** Agriculture Order, 2017 and the Regulation of Wages (General) Order, 2017.

Agreements 3.20. Table 3.12 presents gazzetted monthly basic wages for the agricultural industry. On average, the monthly basic minimum wages for the agriculture industry increased from KSh 7,284 in 2016 to KSh 8,595 in 2017. Unskilled employees, the lowest paid category of workers, had their monthly wages raised from KSh 5,437 in 2016 to KSh 6,416 in 2017. Monthly wages for the highest paid category of workers which include farm foremen and farm clerks was increased from KSh 9,808 in 2016 to KSh 11,574 in 2017.

<sup>&</sup>lt;sup>1</sup> June inflation

<sup>&</sup>lt;sup>2</sup> Includes mainly support services to transport activity

Table 3.12: Gazetted Monthly Basic Minimum Wages for Agricultural Industry, 2013 - 2017

KSh 2013 2014 2015 2016 2017 Type of Employee Unskilled employees..... 4,854 4,854 5,437 5,437 6,416 Stockman, Herdsman and Watchman ...... 5,606 5,606 6,279 6,279 7,409 Skilled And Semi-Skilled Employees: House servant or cook...... 5,542 6,207 6,207 5,542 7,324 8,757 8,757 9,808 9,808 Farm foreman ... ... ... ... ... ... ... ... 11,574 8,757 9,808 8,757 9,808 11,574 Section foreman ...... 5,669 5,669 6,350 6,350 7,492 5,802 5,802 6,498 6,498 7,668 Farm artisan ...... 6,153 6,891 6,891 8,131 Tractor driver ... ... ... ... ... ... ... ... ... 6,153 6,778 7,592 8,958 Combine harvester driver ... ... ... ... 6,778 7,592 Lorry driver or car driver..... 7,113 7,113 7,967 7,967 9,401 **AVERAGE** 6,503 6,503 7,284 7,284 8,595

Source: Ministry of Labour and Social Protection

3.21. Table 3.13 presents the gazetted monthly basic minimum wages in urban areas in 2016 and 2017. The average monthly basic minimum wages in Nairobi, Mombasa and Kisumu cities rose from KSh 17,200 in 2016 to KSh 19,831 in 2017. Average monthly basic minimum wages in all former municipalities and Town Councils of Mavoko, Ruiru and Limuru, increased from KSh 15,980 in 2016 to KSh 17,423 in 2017. Similarly, average monthly basic minimum wages in all the other towns rose from KSh 13,593 to KSh 16,039 over the same period. In all urban areas, the highest paid workers were cashiers, heavy commercial vehicles/salesman drivers and artisans grade 1 over the review period.

Table 3.13: Gazetted Monthly Basic Minimum Wages<sup>1</sup> in Urban Areas, 2016 – 2017

						KSh
		Mombasa & u Cities	All fo Municipaliti Councils o Ruiru and	f Mavoko,	All other towns	
Occupation	2016	2017	2016	2017	2016	2017
General labourer including cleaner, sweeper, gardener, children's						
ayah, house servant, day watchman, messenger	10,954.70	12,926.55	10,107.10	11,926.40	5,844.20	6,896.15
Miner, stone cutter, turn boy .waiter, cook, logger, line cutter	11,831.20	13,960.80	10,496.90	12,386.35	6,752.50	7,967.95
Night watchman	12,221.10	14,420.90	11,330.10	13,369.50	6,970.40	8,225.05
Machine attendant, sawmill sawyer, machine assistant, mass	12,221.10	14,420.70	11,550.10	13,307.30	0,770.40	0,223.03
production machinist, shoe cutter, bakery worker, bakery assistant,						
tailor's assistant	12,416.00	14,650.90	11,553.90	13,633.60	9,364.70	11,050.35
Machinist (made-to-measure), shoe upper preparer, chaplis maker, vehicle service worker (petrol and service stations), bakery plant		1650455	12.250.20	15 (1( 00	10.040.50	12 501 50
hand, laundry operator, junior clerk, wheeled tractor driver (light)	14,173.50	16,724.75	13,259.30	15,646.00	10,840.50	12,791.70
Printing machine operator, bakery machine operator, plywood machine operator, sawmill dresser, shop assistant, machine tool operator, dough maker, table hand baker or confectioner, copy-						
typist, driver (cars and light vans)	14,785.70	17,447.15	13,646.40	16,102.75	11,279.50	13,309.80
Pattern designer (draughts-man), garment and dress cutter, single hand oven man, charge-hand baker, general clerk, telephone						
operator, receptionist, storekeeper	16,872.40	19,909.45	15,425.40	18,201.95	13,152.50	15,519.95
Tailor, driver (medium sized vehicle)	18,595.20	21,942.30	17,090.50	20,166.80	15,239.10	17,982.10
Dyer, crawler tractor driver, salesman	20,528.80	24,224.00	19,154.00	22,601.70	17,286.90	20,398.55
Saw doctor, caretaker (buildings)	22,718.00	26,807 25	21,213.30	25,03170	19,762.00	23,319.15
Cashier, driver (heavy commercial vehicle) salesman - driver	24,719.50	29,169.00	23,262.40	27,449.65	21,811.10	25,737.10
Ungraded artisan	14,785.70	17,447.15	13,646.40	16,10275	11,279.50	13,309.80
Artisan Grade III	18,595.20	21,942.35	17,090.50	20,166.80	15,210.30	17,948.15
Artisan Grade II	20,084.00	23,699.10	19,154.00	22,601 70	17,286.90	20,398.55
Artisan Grade I	24,719.50	29,169.00	23,262.40	27,449 65	21,811.10	25,737.10
Average	17,200.03	19,830.96	15,979.51	17,422.86	13,592.75	16,039.43

Source:Ministry of Labour and Social Protection

3.22. The total number of Collective Bargaining Agreements (CBA) registered in 2017 were 232 compared to 128 in 2016 as shown in Table 3.14. There was a notable increase in the number of agreements registered in Human health and social work activities, Financial and insurance activities; and Wholesale and retail trade activities which rose by 56, 19 and 34 agreements, respectively. However, there were fewer agreements made in Manufacturing; and Transport and storage in 2017. The average monthly basic wage awarded in 2017 was KSh 66,489. This average basic wage was influenced by the CBA between the Ministry of Health, the 47 County Governments and the Kenya Medical Practioners, Pharmacists and Dentists Union. The number of unionisable employees covered by the agreements registered was 340,290 in 2017. The number of unionisable employees covered by the agreements in the Education sector were 24,628 in 2017 while those in Public administration and defence; compulsory social security 207,584 during the same period. The average monthly allowance offered was KSh 15,130.

<sup>&</sup>lt;sup>1</sup> Excluding Housing Allowance

Table 3.14: Collective Bargaining Agreements Registered by the Employment and Labour Relations Court, 2016 - 2017

		o. of ements	No. of Unionisable Employees Covered by the Agreements		Average Monthly Basic Wage (KSh)		Average Monthly Allowances <sup>1</sup> Offered (KSh)	
Activity	2016	2017*	2016	2017*	2016	2017*	2016	2017*
Agriculture, Forestry And Fishing	18	5	3,211	5,131	13,133	15,963	10,900	6,947
Mining And Quarrying	. 1	-	402	-	36,691	-	12,500	-
Manufacturing	151	145	24,618	44,279	22,539	27,367	10,708	10,448
Electricity, Gas, Steam And Air Conditioning Supply		4	-	10,262	-	78,982	-	41,683
Water Supply; Sewerage, Waste Management And Remediation Activities	. 9	12	1,080	912	34,906	37,445	20,169	17,078
Construction	. 5	2	1,286	30	15,656	16,212	8,171	4,564
Wholesale And Retail Trade; Repair Of Motor Vehicles And Motorcycles	2	36	21	7,744	28,041	39,223	6,050	10,821
Transportation And Storage	. 39	20	12,583	4,993	43,186	47,655	16,773	24,365
Accommodation And Food Service Activities	. 9	13	318	1,342	21,546	33,166	12,237	10,336
Information And Communication	5	3	106	256	61,799	98,420	14,885	21,629
Financial And Insurance Activities.	10	29	20,754	18,445	140,876	141,052	21,223	23,480
Real Estate Activities.		2	-	180	-	28,808	-	11,200
Professional, Scientific And Technical Activities	. 2	5	519	652	35,889	34,278	13,600	12,889
Administrative And Support Service Activities	. 3	5	1,249	5,448	29,703	21,220	8,824	11,367
Public Administration And Defence; Compulsory Social Security	1	1	29	207,584	13,035	24,021	3,500	6,450
Education	24	29	297,472	24,628	27,934	276,436	14,959	14,433
Human Health And Social Work Activities	5	61	449	5,179	29,745	225,745	11,130	24,706
Arts, Entertainment And Recreation	9	6	596	1,731	20,912	17,701	10,757	14,464
Other Service Activities.	. 5	7	2,943	1,348	73,053	61,379	8,192	9,619
$Activities\ Of\ Households\ As\ Employers;\ Un\ differentiated\ Goods\ -\ And\ Services\ -\ And\ Ser$								
Producing Activities Of Households For Own Use	-	-	-	-	-	-	-	-
Activities Of Extraterritorial Organizations And Bodies	-	1	-	146	-	38,214	-	11,000
Total Average	298	386	367,636	340,290	38,156	66,489	12,034	15,130

<sup>&</sup>lt;sup>1</sup> Includes Housing, Leave and Travel allowances

Social 3.23. The National Social Security (NSSF) was established as a mandatory scheme whose Security main objective is to provide basic financial security benefits to Kenyans in both formal and informal sectors upon retirement. Table 3.15 gives the number of registered employers and employees, annual contributions from employees and annual benefits. During the year under review, the number of registered employers went up by 36.8 per cent from 98.1 thousand in 2016 to 134.2 thousand in 2017. Similarly, the number of registered employees increased from 3,864.4 thousand in 2016 to 3,905.1 thousand in 2017. The annual contribution and annual benefit rose marginally to KSh 9.5 billion and KSh 4.9 billion, respectively in 2017.

Table 3.15: Registered Employers, Employees, Contributions and Benefits, 2013-2017

Details	2013	2014	2015	2016	2017*
Registered Employers '000	92.1	93.3	96.0	98.1	134.2
Registered Employees '000					
Male	2,955.0	2,975.4	2,698.7	2,862.4	2,898.2
Female	1,001.3	1,005.1	948.8	1,002.0	1,050.4
Total	3,956.3	3,980.5	3,662.1	3,864.4	3,905.1
Annual contribution (KSh million)	6,571.6	6,587.9	9,209.9	9,486.2	9,491.4
Annual benefits paid (KSh million)	2,844.6	2,881.3	3,999.2	4,839.0	4,856.3

Source: National Social Security Fund

<sup>\*</sup> Provisional

Consumer 3.24. The Consumer Price Index (CPI) is a measure that examines the weighted average **Price Index** change in prices of a basket of consumer goods and services. This section provides a five year series of consumer price indices and average retail prices for some selected consumer goods in the basket.

> 3.25. The annual inflation as measured by the Consumer Price Index (CPI) increased from 6.3 per cent in 2016 to 8.0 per cent in 2017. The increase in inflation was mainly due to higher food prices as a result of drought experienced during the first half of the year. The increase in the prices of petrol, kerosene, diesel and electricity led to a rise in the cost of transport and manufactured goods during the review period. Further, the uncertainties brought about by the long electioneering period caused an increase in some retail prices of food items which included capsicums, onions, tomatoes, carrots and cabbages. However, the Government subsidized the cost of maize flour in the second half of 2017, in order to cushion the public from high food prices.

> 3.26. Food and non-alcoholic beverages index, which has the largest share in the CPI basket, recorded the highest increase of 13.4 per cent followed by restaurants and hotels at 5.5 per cent in 2017 as presented in Table 3.16. During the same period, transport index increased by 3.9 per cent mainly due to increase in pump prices of petrol, diesel and public transport fares. Housing, water, electricity, gas and other fuels index went up by 3.1 per cent due to increases in costs of house rent, kerosene and electricity.

Table 3.16: Consumer Price Indices and Inflation by Divisions, 2013 - 2017

February 2009=100

	Percentage	Annual Average Index					Percentage
COICOP Divisions	Share	2013	2014	2015	2016	2017	Change
Food & Non-Alcoholic Beverages	36.03	155.44	168.97	188.22	207.19	234.90	13.4
Alcoholic Beverages, Tobacco & Narcotics	2.06	141.02	148.03	153.42	173.69	179.18	3.2
Clothing & Footwear	7.43	129.65	135.85	142.19	148.20	153.70	3.7
Housing, Water, Electricity, Gas and other Fuels	18.30	133.82	141.31	145.81	148.21	152.84	3.1
Furnishings, Household Equipment and Routine							
Household Maintenance	6.16	129.72	136.27	142.34	147.98	152.66	3.2
Health	3.13	125.68	133.39	139.82	145.50	150.35	3.3
Transport	8.67	147.38	161.36	160.61	160.94	167.20	3.9
Communication	3.82	78.35	77.10	77.83	79.40	79.68	0.4
Recreation & Culture	2.25	127.90	140.95	145.27	151.45	153.83	1.6
Education	3.14	118.80	125.21	130.26	135.68	139.70	3.0
Restaurant & Hotels	4.49	149.90	159.82	168.08	177.34	187.01	5.5
Miscellaneous Goods & Services	4.52	127.37	133.02	139.41	145.18	150.42	3.6
Overall Index	100.00	140.11	149.74	159.60	169.68	183.23	8.0

3.27. Table 3.17 presents a breakdown of the annual average consumer price indices for classes of food and non-alcoholic beverages. Fruits and vegetables had the highest inflation rate in 2017 of 22.5 per cent and 21.1 per cent, respectively. The index for Sugar, jam, honey, chocolate and confectionery; Bread and Cereals; Milk, Cheese and Eggs increased notably by 15.3, 12.3 and 10.2 per cent, respectively, during the same period.

Table 3.17: Consumer Price Indices for Food and Non-Alcoholic Beverages, 2013 -2017

	Percentage						Percentage
Food and non-alcoholic beverages	Share	2013	2014	2015	2016	2017	Change
Bread and cereals	10.52	136.08	143.53	147.88	152.81	171.56	12.3
Meat	5.68	152.64	164.29	174.24	178.12	184.20	3.4
Fish and Sea foods	1.32	163.26	181.65	198.31	211.43	229.90	8.7
Milk, Cheese and Eggs	4.96	158.78	169.52	181.47	181.02	199.45	10.2
Oils and fats	1.69	163.69	163.27	161.90	163.80	173.90	6.2
Fruits	2.38	176.68	197.84	233.28	287.70	352.55	22.5
Vegetables	5.68	180.46	221.60	297.19	373.90	452.81	21.1
Sugar, jam, honey, chocolate and confectionery	2.33	165.24	153.37	152.29	164.57	189.82	15.3
Food products n.e.c	0.11	127.48	135.99	144.70	147.55	146.76	-0.5
Coffee, tea and cocoa	0.38	121.20	122.03	125.10	130.20	132.99	2.1
Mineral waters, soft drinks, fruit and vegetable juices	1.00	136.26	141.04	143.97	153.92	157.41	2.3

3.28. Table 3.18 presents annual average retail prices of selected consumer goods. The price of one kilogram of sugar increased by16.6 per cent from an average of KSh118.2 in 2016 to an average of KSh 137.8 in 2017. During the year under review, there was shortage of maize grain which resulted to a price increase from KSh 42.8 per kilogram in 2016 to KSh 57.7 per kilogram in 2017. However, the price of a 13 kilogram cooking gas declined by 3.7 per cent from an average of KSh 2,154.8 in 2016 to KSh 2,075.3 in 2017.

**Table 3.18: Average Retail Prices of Selected Consumer Goods in the Consumer Price Basket, 2013 - 2017** 

						KSh
Item	Unit	2013	2014	2015	2016	2017
Beef - With Bones	1 Kg	342.5	369.1	392.5	399.6	410.3
Offals (Matumbo)	1 Kg	203.3	217.8	236.6	244.1	254.1
Bread,White	400 Gms	47.5	49.2	48.9	49.2	49.5
Maize Grain - Loose	1 Kg	42.3	45.2	43.1	42.8	57.7
Milk - Packeted	1/2 Litre	48.8	50.8	52.7	53.5	59.6
Sugar	1 Kg	120.2	110.6	109.2	118.2	137.8
Wheat Flour	2 kg	137.9	136.4	129.1	124.3	131.3
English Potatoes	1 Kg	52.7	49.3	63.0	77.0	81.1
Kales (Sukuma-Wiki)	1 Kg	41.8	38.8	38.4	40.1	52.8
Cabbages	1 Kg	49.0	41.4	42.9	59.1	66.5
Petrol -Super	1 Litre	113.1	112.8	94.7	90.3	99.3
Diesel	1 Litre	105.1	103.7	81.0	77.4	86.0
Kerosene	1 Litre	83.9	82.4	58.4	54.6	67.0
Electricity	200 KW/h	3,066.3	3,373.1	3,466.9	3,394.3	3,727.7
Electricity	50 KW/h	575.8	586.5	531.1	533.2	597.3
Gas	13 Kg	2,688.7	3,062.4	2,506.7	2,154.8	2,075.3

3.29. Table 3.19 presents inflation in the Nairobi Lower, Middle and Upper income groups, as well as the Rest of Urban areas. Nairobi lower income group recorded the highest annual inflation of 8.6 per cent, while Nairobi middle income and the rest of urban areas recorded 6.1 per cent and 8.0 per cent, respectively, in 2017.

**Table 3.19: Annual Inflation, 2013 - 2017** 

Per c							
Income Group	2013	2014	2015	2016	2017		
Nairobi Lower Income Inflation	5.9	5.8	6.9	6.8	8.6		
Nairobi Middle Income Inflation	4.5	4.7	4.3	4.1	6.1		
Nairobi Upper Income Inflation	3.4	6.0	2.6	4.6	3.4		
Nairobi Inflation	5.5	5.6	6.1	6.1	7.9		
Rest of Urban Towns Inflation	5.9	7.8	6.9	6.4	8.0		
Overall Inflation	<b>5.</b> 7	6.9	6.6	6.3	8.0		

## Note:

3.30. Table 3.20 shows that the annual average CPI for Nairobi lower income group rose from 173.03 in 2016 to 187.94 in 2017. The highest index of 192.75 was recorded in May, while the lowest of 179.88 was recorded in January 2017.

Table 3.20: Consumer Price Indices, Nairobi Lower Income Group, 2013 - 2017

Month	2013	2014	2015	2016	2017
Month	2013	2017	2013	2010	2017
January	138.55	148.47	155.65	167.60	179.88
February	139.72	148.75	156.51	167.38	183.80
March	141.17	149.36	158.81	169.19	188.07
April	142.91	150.57	161.85	170.86	191.95
May	142.84	151.51	162.09	171.89	192.75
June	142.68	151.39	162.47	174.08	189.69
July	142.94	151.71	162.74	174.51	187.45
August	142.82	153.51	162.78	174.40	188.90
September	146.54	153.64	163.13	174.60	188.23
October	146.18	153.18	164.26	176.05	188.21
November	146.29	152.88	166.02	177.67	187.64
December	146.93	154.08	167.48	178.10	188.73
Annual average	143.30	151.59	161.98	173.03	187.94

<sup>1:</sup> The lower income group comprises households with monthly expenditure below KSh 23, 670 in October 2005

<sup>2</sup>: The middle income group comprises households with monthly expenditure between KSh 23,671 and KSh 119,999 in October 2005

 $<sup>3\</sup> The\ upper\ in come\ group\ comprises\ households\ with\ monthly\ expenditure\ above\ KSh\ 120,000\ in\ October\ 2005$ 

3.31. Tables 3.21, 3.22, 3.23, 3.24 and 3.25 present five years' series of CPI for the Nairobi Middle and Upper Income Groups, Overall Nairobi, Rest of Urban Areas and the aggregated national indices. The highest national index of 187.64 was recorded in May 2017 while the lowest index of 176.93 was recorded in January 2017.

Table 3.21: Consumer Price Indices, Nairobi Middle Income Group, 2013 - 2017

Fe	bruary	<sup>7</sup> 20	09=1	100

					tuary 2009=100
Month	2013	2014	2015	2016	2017
January	125.13	131.93	136.19	144.24	150.25
February	125.79	131.99	136.25	143.39	151.94
March	126.89	132.79	137.09	143.78	153.20
April	127.57	133.22	137.74	143.97	155.28
May	127.08	133.91	138.95	144.59	155.81
June	126.80	134.48	140.70	145.59	154.29
July	127.56	135.45	141.17	146.18	154.19
August	127.61	135.76	141.66	146.76	155.14
September	131.11	135.48	142.04	147.19	155.36
October	130.91	135.33	141.93	147.22	156.04
November	130.66	134.97	141.75	147.61	156.27
December	130.88	135.60	145.22	148.37	157.44
Annual average	128.16	134.24	140.06	145.74	154.60

Table 3.22: Consumer Price Indices, Nairobi Upper Income Group, 2013 - 2017

Month	2013	2014	2015	2016	2017
January	126.64	134.11	136.86	144.30	150.27
February	126.91	134.32	136.66	144.19	150.99
March	127.77	134.63	137.07	144.21	151.28
April	127.88	135.10	137.67	145.61	151.30
May	127.25	136.39	138.96	145.93	151.51
June	126.93	136.83	139.25	146.21	150.94
July	127.09	137.30	141.35	146.94	151.32
August	127.72	139.94	143.53	148.33	152.02
September	132.57	139.46	143.35	148.71	151.87
October	132.47	138.22	143.05	148.68	152.99
November	132.40	138.03	142.70	149.23	153.38
December	132.51	136.74	143.34	149.68	154.61
Annual average	129.01	136.76	140.32	146.84	151.87

**Table 3.23: Consumer Price Indices, Overall Nairobi, 2013 – 2017** 

February 2009=100

				1 0010	ary 2009=100
Month	2013	2014	2015	2016	2017
January	134.86	143.94	150.24	161.09	171.62
February	135.88	144.16	150.87	160.72	174.88
March	137.22	144.81	152.75	162.12	178.27
April	138.64	145.80	155.12	163.42	181.57
May	138.45	146.69	155.63	164.32	182.28
June	138.26	146.76	156.34	166.15	179.69
July	138.63	147.25	156.72	166.64	178.06
August	138.58	148.72	156.96	166.75	179.36
September	142.29	148.72	157.30	167.01	178.93
October	141.98	148.31	158.07	168.06	179.12
November	142.00	148.00	159.29	169.35	178.78
December	142.51	148.97	161.20	169.85	179.89
Annual average	139.11	146.84	155.87	165.46	178.54

Table 3.24: Consumer Price Indices, the Rest of Urban Areas, 2013 - 2017

Month	2013	2014	2015	2016	2017
January	136.15	146.42	155.67	168.36	180.65
February	137.08	147.21	156.42	168.11	183.55
March	138.48	147.87	158.04	168.58	186.28
April	139.72	149.88	161.20	169.62	189.52
May	140.27	151.81	163.03	170.55	191.38
June	140.53	152.12	163.34	172.29	189.38
July	140.73	152.95	163.26	173.78	187.48
August	141.49	154.33	163.66	173.92	188.48
September	143.19	154.71	164.15	174.74	186.98
October	143.28	154.45	164.98	175.82	184.87
November	143.94	154.55	165.55	177.01	184.38
December	144.79	154.99	167.18	178.91	185.27
Annual average	140.81	151.77	162.21	172.64	186.52

Table 3.25: Consumer Price Indices, Kenya, 2013 - 2017

				1 001	uary 2007=100
Month	2013	2014	2015	2016	2017
January	135.62	145.40	153.43	165.37	176.93
February	136.59	145.95	154.14	165.06	179.98
March	137.96	146.61	155.86	165.92	182.98
April	139.28	148.20	158.70	167.07	186.24
May	139.52	149.70	159.98	167.99	187.64
June	139.59	149.91	160.46	169.76	185.39
July	139.87	150.60	160.57	170.84	183.60
August	140.29	152.02	160.90	170.97	184.72
September	142.82	152.24	161.33	171.56	183.66
October	142.75	151.92	162.13	172.62	182.50
November	143.14	151.85	162.97	173.85	182.08
December	143.85	152.51	164.72	175.18	183.05
Annual average	140.11	149.74	159.60	169.68	183.23

# Money, Banking and Finance

Chapter 04

Overview

enya's financial sector recorded a slowed growth of 3.1 per cent in 2017 compared to a growth of 6.7 per cent in 2016. The slowdown may be attributed low uptake of credit. In 2017, the monetary policy stance focused on maintaining inflation within the Government's target range of 2.5 per cent on either side of the 5.0 per cent medium-term target. In the first half of 2017, there was an inflation surge, which averaged 9.8 per cent mainly due to food shortages witnessed during the period.

- 4.2. During the review period, the Monetary Policy Committee (MPC) retained the Central Bank Rate (CBR) at 10.0 per cent to continue anchoring inflation expectations, capping lending rates at 4.0 basis points above the CBR. The 91-day Treasury Bill rate fell from 8.44 per cent in December 2016 to 8.42 per cent in June 2017 and further to 8.01 per cent in December 2017. The year-on-year inflation in December 2017 stood at 4.50 per cent, compared to 6.35 per cent in December 2016.
- 4.3. The annual growth rates of money supply and private sector credit were consistent with the developments in the financial sector, in particular, the enforcement of the Banking (Amendment) Act 2016. Money supply (M1) expanded by 6.7 per cent in December 2017. The extended broad money supply (M3) grew by 8.9 per cent to KSh 3,010.9 billion in December 2017. Credit to the private sector expanded by 2.4 per cent in 2017, compared to 4.1 per cent in 2016. Total domestic credit grew by 7.9 per cent to 3,252.2 billion in 2017.
- 4.4. Interest rates on average deposits increased to 8.22 per cent in December 2017 from 7.33 per cent in December 2016. On the other hand, commercial banks' average lending interest rates charged on loans and advances remained stable at 13.64 per cent in December 2017, owing to the prevailing monetary policy stance and interest rate capping requirements. The increase on average interest rates on deposits narrowed the loan-deposit interest spread to 5.41 per cent in December 2017.
- 4.5. In the equities market, the Nairobi Securities Exchange (NSE) 20-Share index rose to 3,712 points in December 2017 from 3,186 points in December 2016. However, noticeable volatility was recorded in the weeks before the election months of August and October 2017. In the pensions sub-sector, the retirement benefit assets grew to KSh 963.1 billion in June 2017 from KSh 831.8 billion in June 2016.

4.6. Table 4.1 shows selected monetary indicators from 2013 to 2017. The Net Foreign Assets (NFA) held by the banking system increased by 4.6 per cent to KSh 517.9 billion in December 2017 from KSh 495.2 billion in December 2016. Total domestic credit by the banking system grew by 7.9 per cent in December 2017 to KSh 3,252.2 billion. Domestic credit to private sector and other public bodies grew to KSh 2,496.5 billion in December 2017 from KSh 2,421.5 billion in December 2016. Credit to the National Government increased by 27.4 per cent to KSh 755.7 billion in December 2017. Extended broad money supply (M3) grew by 8.9 per cent to KSh 3,010.9 billion in 2017. The commercial banks liquidity ratio rose to 47.1 per cent in December 2017 from 45.8 per cent in December 2016. The advances to deposits ratio dropped from 88.6 per cent to 83.2 per cent over the same period, due to subdued economic

Selected Monetary ndicators

activity that led to reduced borrowing and the rise in liquidity.

Table 4.1: Monetary Indicators, 2013-2017

As at end	of:	Net Foreign Assets (KSh Million)	Domestic Credit (KSh million)			Extended Broad Money Supply(M3) (KSh Million)	Commercial Bank Liquidity Ratio <sup>1</sup> (per cent)	Advances/ Deposits Ratio (per cent)
			Private and other National Total Government					
2013	Dec	387,292	1,581,358	397,164	1,978,522	1,996,242	47.0	82.3
2014	Dec	479,654	1,932,862	379,316	2,312,178	2,329,979	45.1	83.0
2015	Dec	491,461	2,269,898	524,026	2,793,924	2,658,166	43.7	87.0
2016	Dec	495,165	2,421,506	592,770	3,014,276	2,764,507	45.8	88.6
2017*	Mar	602,976	2,415,662	583,476	2,999,137	2,846,634	46.2	87.3
	Jun	644,126	2,407,163	646,240	3,053,402	2,936,110	48.1	83.2
	Sep	611,627	2,450,910	674,324	3,125,234	2,986,352	49.1	83.2
	Dec	517,876	2,496,453	755,698	3,252,151	3,010,943	47.1	83.2

Source: Central Bank of Kenya

4.7. Table 4.2 presents various money supply aggregates for the period 2013 to 2017. Money supply (M1) grew by 6.7 per cent in December 2017 compared to a growth of 28.0 per cent in December 2016. Quasi money deposits held by commercial banks and other deposit taking institutions increased by 8.6 per cent during the same period. Broad money supply (M2) and extended broad money supply (M3) grew by 7.5 per cent and 8.9 per cent, respectively. The overall liquidity grew by 10.1 per cent to KSh 4,085.1 billion during the period under review.

<sup>\*</sup>Provisional

<sup>&</sup>lt;sup>1</sup>Commercial Banks' liquid assets as per cent of deposit liabilities

Table 4.2: Money and Quasi Money Supply, 2013-2017

					KSh Million
	Money (M1)	Quasi-Money	M2	М3	L
<b>2013</b> Dec	827,069	844,526	1,671,595	1,996,242	2,523,227
<b>2014</b> Dec	936,440	1,045,421	1,981,860	2,329,979	2,949,057
<b>2015</b> Dec	1,023,672	1,211,125	2,234,797	2,658,166	3,390,818
<b>2016</b> Dec	1,310,016	1,050,186	2,360,202	2,764,507	3,708,694
<b>2017</b> * Jan	1,272,950	1,063,206	2,336,156	2,759,198	3,702,755
Feb	1,287,123	1,063,239	2,350,363	2,781,233	3,734,966
Mar	1,317,184	1,094,919	2,412,103	2,846,634	3,816,679
Apr	1,363,661	1,087,260	2,450,921	2,895,366	3,858,902
May	1,359,121	1,102,098	2,461,219	2,902,854	3,873,754
Jun	1,391,293	1,089,229	2,480,521	2,936,110	3,934,976
Jul	1,382,374	1,113,649	2,496,023	2,957,939	3,958,719
Aug	1,364,341	1,138,812	2,503,153	2,966,992	3,979,927
Sep	1,382,674	1,132,413	2,515,087	2,986,352	4,012,345
Oct	1,395,418	1,119,720	2,515,138	2,980,395	4,030,946
Nov	1,387,745	1,133,240	2,520,985	2,995,206	4,070,168
Dec	1,397,256	1,140,939	2,538,195	3,010,943	4,085,100

Source: Central Bank of Kenya.

# Notes:

- (a) M1 comprises of currency outside banks plus all demand deposits except; those of National Government, Commercial Banks, Non Residents deposits
- $(b) \ Quasi \ Money: Refers \ to \ near \ money. \ It \ comprises \ of \ call \ plus \ 7 \ days \ deposits, savings \ and \ time \ deposits.$
- (c) M2, Broad Money, comprise of M1 and Quasi money.
- $(d)\,\boldsymbol{M3}, Extended\,Broad\,Money, comprises\,M2\,and\,foreign\,currency\,holdings\,by\,residents.$
- (e)  $\boldsymbol{L}$ , Overall Liquidity, comprises M3 and Treasury Bill holdings by the non-bank public.

# Consolidated Accounts of the Banking System

4.8. Table 4.3 presents assets and liabilities of the banking system for the period 2013 to 2017. Assets and liabilities of the banking system increased by 7.4 per cent to KSh 3,770.0 billion in December 2017 from KSh 3,509.4 billion in December 2016. Demand deposits increased by 6.5 per cent from KSh 1,100.1 billion in December 2016 to KSh 1,171.8 billion in December 2017, while foreign currency deposits increased by 17.0 per cent to KSh 472.7 billion.

<sup>\*</sup> Provisional

Table 4.3: Consolidated Accounts of the Banking System 2013-2017

KSh Million

	2013	2014	2015	2016		20	17*	KSH WIIIION
LIABILITIES-	December	December	December	December	March	June	September	December
1. Money (M1):								
1.1 Demand Deposits	663,709	762,935	832,421	1,100,124	1,116,184	1,184,179	1,173,399	1,171,755
1.2 Currency outside banks	163,359	173,505	191,251	209,891	201,000	207,114	209,275	225,500
Sub-Total	827,069	936,440	1,023,672	1,310,016	1,317,184	1,391,293	1,382,674	1,397,256
2. Quasi-Money(MS):								
2.1 Call + 7 days Notice Deposits	81,889	101,141	117,048	162,345	169,260	168,381	175,056	176,374
2.2 Savings Deposits	230,358	286,860	333,265	105,594	110,092	109,520	113,862	114,719
2.3 Time Deposits	532,279	657,419	760,812	782,246	815,566	811,328	843,495	849,845
Sub-Total (quasi-money banks)	844,526	1,045,421	1,211,125	1,050,186	1,094,918	1,089,229	1,132,413	1,140,938
Broad Money Supply(M2)	1,671,594	1,981,860	2,234,797	2,360,201	2,412,102	2,480,522	2,515,087	2,538,194
3. Foreign Currency Deposits	324,647	348,119	423,369	404,305	434,531	455,588	471,265	472,749
Extended Broad Money Supply(M3)	1,996,241	2,329,979	2,658,166	2,764,506	2,846,634	2,936,110	2,986,352	3,010,943
5. Treasury Bill Holdings	526,985	619,078	732,652	944,187	970,045	998,867	1,025,993	1,074,156
Overall Liquidity(L)	2,523,227	2,949,057	3,390,818	3,708,694	3,816,679	3,934,977	4,012,345	4,085,099
6. Other Items Net(OIN)	369,572	461,854	627,219	703,830	708,934	710,253	694,932	705,218
Total Liabilities (M3+OIN)	2,365,813	2,791,833	3,285,385	3,468,336	3,555,568	3,646,363	3,681,284	3,716,161
ASSETS-								
7. Net Foreign Assets	387,292	479,654	491,461	495,164	602,976	644,126	611,627	517,876
8. Domestic Credit:								
8.1 National Govt	397,164	379,316	524,026	592,770	583,476	646,240	674,324	755,698
8.2 Other Public Bodies	39,620	48,402	65,093	104,719	105,940	106,858	113,710	112,399
8.3 Private Sector (net)	1,541,738	1,884,460	2,204,805	2,275,683	2,263,176	2,249,139	2,281,624	2,330,188
Total Domestic Credit	1,978,522	2,312,178	2,793,924	2,973,172	2,952,592	3,002,237	3,069,658	3,198,285
TOTAL ASSETS	2,365,813	2,791,833	3,285,385	3,468,336	3,555,568	3,646,363	3,681,284	3,716,161

Source: Central Bank of Kenya.

# Notes:

<sup>\*</sup> Provisional

<sup>(</sup>a) Other Items Net Includes Special Drawing Rights (SDR) allocated by IMF.

 $<sup>(</sup>b) \, Net \, For eign \, Assets \, includes \, Government \, reserve \, position \, in \, the \, IMF \, and \, deposits \, with \, Crown \, Agents.$ 

 $<sup>(</sup>c) \ Treasury \ Bill \ holdings \ by \ the \ non-bank \ public \ is \ not \ included \ in \ total \ liabilities \ of \ the \ banking \ system.$ 

**Sources** 4.9. Changes in money supply and their sources for the period 2013 to 2017 are presented of Change in Table 4.4. Changes in M3 are as a result of changes in net domestic assets of the banking in Money system which comprise; net foreign assets, domestic credit and other items net. Change in Supply extended broad money (M3) was KSh 246.4 billion in December 2017 compared to KSh 106.3 billion recorded in December 2016. During the same period, change in foreign currency deposits was KSh 68.4 billion in 2017 compared to a negative change of KSh 19.1 billion in 2016. The growth in M3 was mainly attributable to increase in credit advanced to the National Government and private sector.

Table 4.4: Changes in Money Supply and the Sources, 2013-2017

KSh Million

	2013	2014	2015	2016	2017*
MONEY SUPPLY CHANGES					
1  Currency plus demand deposits $(M1)$ .	116,185	109,371	87,232	286,344	87,240
2 Quasi-money	86,010	200,895	165,704	-160,939	90,752
3 Foreign Currency Deposits	66,360	23,472	75,250	-19,064	68,444
4 Extended Broad Money supply (M3)	268,556	333,738	328,187	106,341	246,437
SOURCES OF CHANGES					
5 Net foreign assets	61,299	92,363	11,806	3,703	22,712
6 All Domestic Credit					
(a) to National Government (net)	28,341	-17,848	144,710	68,744	162,927
(b) to other public sector	-10,195	8,782	16,691	39,626	7,680
(c) to private sector	257,865	342,722	320,345	70,878	54,505
7 Other Items (Net)	-68,755	-92,282	-165,366	-76,610	-1,388
8 Total sources of change (5+6+7)	268,556	333,738	328,187	106,341	246,437

Note: Changes in Money Supply and the sources compares year-end values

**Selected Financial** Aggregates in **Real Values** 

4.10. Selected financial aggregates in real values from 2013 to 2017 are shown in Table Commercial bank credit to private sector contracted by 1.4 per cent while overall liquidity grew by 5.4 per cent in 2017. Commercial banks deposit liabilities increased by 6.0 per cent from KSh1,582.2 billion in 2016 to KSh 1,676.4 billion in 2017. Extended broad money supply (M3) increased by 4.2 per cent to KSh 1,644.9 billion, while total liabilities of the banking system increased by 2.5 per cent to KSh 2,030.1 billion. The share of commercial banks deposit liabilities to the total liabilities increased from 79.9 per cent in 2016 to 82.6 per cent in 2017.

<sup>\*</sup> Provisional

Table 4.5: Trends in the Real Values of Selected Financial Aggregates 1, 2013-2017

KSh Million 2013 2014 2015 2016 2017\* 1 Extended Broad Money Supply (M3)...... 1,387,724 1,527,755 1,613,748 1,578,095 1,644,875 2 Overall Liquidity (L).... .. ... .. .. .. .. .. 1,754,068 1,933,681 2,058,534 2,117,076 2,231,685 3 Commercial bank credit to private sector .. 1,099,310 1,267,367 1,378,034 1,382,296 1,363,809 4 Total commercial bank credit .. .. ... .. .. 1,375,406 1,516,083 1,696,166 1,720,674 1,776,646 5 Commercial Banks' Deposit Liabilities .. .. 1,369,640 1,525,925 1,615,554 1,582,207 1,676,440 6 Total liabilities of banking system .... .. .. 1,644,639 1,830,590 1,994,507 1,979,870 2,030,134 Memorandum item: 7 Line 5 as per cent of line 6 .... .. .. .. .. 83.3 83.4 81.0 79.9 82.6

# Nominal and Real Interest Rates

4.11. Nominal interest rates for the period 2013 to 2017 are presented in Table 4.6. Average deposit rates rose from 7.33 per cent in December 2016 to 8.22 per cent in December 2017. The commercial banks' average interest rates charged on loans and advances declined from 13.69 per cent in December 2016 to 13.64 per cent in December 2017. The CBR remained at the same rate of 10.00 per cent during the year under review. The 91-day Treasury Bills rate dropped to 8.01 per cent in December 2017 from 8.44 per cent in December 2016.

Table 4.6: Nominal Principal Interest Rates, 2013-2017

Per cent

						1 01 00110
	2013	2014	2015	2016	20	017
	December	December	December	December	June	December
CENTRAL BANK OF KENYA						
91- day Treasury Bills Rate	9.52	8.58	9.81	8.44	8.42	8.01
Central Bank Rate	8.50	8.50	11.50	10.00	10.00	10.00
Repo rate	9.38	8.29	9.23		4.13	7.75
Inter-bank rate	8.98	6.91	7.27	5.92	3.99	7.27
COMMERCIAL BANKS <sup>1</sup>						
Average deposits	6.65	6.81	8.02	7.33	7.15	8.22
Savings deposits	1.58	1.85	1.56	6.37	5.63	6.91
Loan and Advances (maximum)	16.99	15.99	18.30	13.69	13.66	13.64
Overdraft	16.51	15.86	18.48	13.49	13.38	13.54
Loans-Deposits Spread	10.34	9.18	10.28	6.36	6.52	5.41

Source: Central Bank of Kenva.

4.12. Selected real principal interest rates for the period 2013 to 2017 are presented in Table 4.7. Average real interest rates for the 91-day Treasury Bills rose from 2.09 per cent in 2016 to 3.51 per cent in 2017. In the same period, real interest rates for commercial bank average savings deposit rate rose from 0.98 per cent to 3.72 per cent, while the inter-bank rates rose from negative 0.43 per cent to 2.77 per cent. The real interest rate for loans and advances from commercial banks increased from 7.34 per cent in 2016 to 9.14 per cent in 2017.

<sup>\*</sup>Provisional

<sup>&</sup>lt;sup>1</sup>Selected financial aggregates values are deflated using December Consumer Price Indices

<sup>&</sup>lt;sup>1</sup>Weighted average commercial bank interest rates

Table 4.7: Selected Real Principal Interest Rates, 2013-2017

Per cent

				- 1- 1
	Year	Nominal Interest	Inflation Rate	Real Interest <sup>1</sup>
Average Interest	2013	9.52	7.15	2.37
Rate for 91-day	2014	8.58	6.02	2.56
Treasury Bills	2015	9.81	8.01	1.80
	2016	8.44	6.35	2.09
	2017	8.01	4.50	3.51
Commercial	2013	1.58	7.15	-5.57
bank deposits	2014	1.85	6.02	-4.17
(average)	2015	1.56	8.01	-6.45
	2016	7.33	6.35	0.98
	2017	8.22	4.50	3.72
Commercial	2013	16.99	7.15	9.84
bank loans and	2014	15.99	6.02	9.97
advances	2015	18.30	8.01	10.29
(maximum)	2016	13.69	6.35	7.34
	2017	13.64	4.50	9.14
Inter-Bank Rate	2013	8.98	7.15	1.83
	2014	6.91	6.02	0.89
	2015	7.27	8.01	-0.74
	2016	5.92	6.35	-0.43
	2017	7.27	4.50	2.77

Note: Interest rates are as at December

4.13. The statement of financial position of the Central Bank of Kenya (CBK) from 2013 to 2017 is shown in Table 4.8. The total assets and liabilities of the Central Bank rose from KSh 866.5 billion in December 2016 to KSh 906.0 billion in December 2017. Other assets, including Treasury Bills and Bonds increased from KSh 37.9 billion in December 2016 to KSh 80.5 billion in December 2017. On the liabilities side, total deposits declined by 8.8 per cent from KSh 515.7 billion in December 2016 to KSh 473.6 billion in December 2017. Currency in circulation increased by 6.3 per cent from KSh 262.7 billion in December 2016 to KSh 279.2 billion in December 2017.

<sup>&</sup>lt;sup>1</sup> Real Interest Rate equals Nominal Rate minus Inflation Rate

Table 4.8: Central Bank of Kenya Assets and Liabilities, 2013-2017

KSh Million 2013 2014 2017\* Dec Dec Dec September December Dec March June ASSETS 1. Foreign Exchange:-1.1 Balances with External Banks..... 602,741 462,378 608,203 585,544 580,215 656,693 685,954 485,322 1.2 Treasury Bills..... 77,496 81,195 133,828 131,717 135,334 140,164 178,765 229,344 44,204 45,080 46,094 49,010 40,180 1.3 Other Investments ...... 29,413 32,641 36,166 1.4 Special Drawing Rights .... 2,682 1,241 1,551 3,813 1,199 1,877 253 1,487 TOTAL 837,107 872,212 830,516 754,846 571,969 723,279 765,127 751,911 2. Advances & Disc. to Banks. 13,788 3,676 16,858 46,713 30,700 23,600 64,512 28,292 3. Direct Advances & Overdraft to the Government ....... 34.187 30,929 45,233 29,956 30,298 43 24,739 42,335 4. Other Assets including T Bills & Bonds 40,703 28,325 71,277 37,914 80,537 81,239 80,560 80,507 TOTAL ASSETS 650,670 786,209 885,202 866,494 978,642 977,094 1,000,326 905,980 LIABILITIES: 5,000 5,000 5,000 1. Capital ... 5,000 5,000 5,000 5,000 5,000 2. Currency-2.1 Notes ..... 203,988 215,272 233,703 254,784 237,389 245,487 242,510 270,593 6,008 6,658 7,228 7,951 8,124 8,300 8,185 2.2 Coins ..... 8,566 TOTAL CURRENCY ..... 209,990 | 221,930 | 240,931 | 262,734 253,787 245,513 250,695 279,159 3. Deposits 3.1 To the Government ..... 115,542 179,963 177,905 181,804 183,582 214,346 227,931 144,903 3.2 Local Banks 1 ..... 110,773 158,111 151,499 148,411 204,334 145,815 173,826 159,619 3.3 External Banks ..... 139,694 133,819 143,741 130,329 139,284 133,868 135,867 127,717 53,498 81,243 59,704 41,389 3.4 Other ..... 30,948 26,729 29,634 55,129 TOTAL Deposits 396,957 498,622 502,778 515,673 580,697 575,272 597,328 473,628 38,723 60,658 136,493 83,087 147,432 143,034 147,303 148,194 4. Other Liabilities TOTAL LIABILITIES ..... 650,670 786,209 885,202 866,494 978,642 977,094 1,000,326 905,980

Source: Central Bank of Kenya

4.14. Table 4.9a presents credit advanced by commercial banks to various sectors from 2013 to 2017. Commercial banks' credit grew by 6.0 per cent from KSh 3,127.9 billion in December 2016 to KSh 3,316.6 billion in December 2017. Credit advanced to manufacturing sector increased by 13.0 per cent to KSh 310.6 billion in 2017. In the public sector, commercial banks credit to the National Government rose by 16.5 per cent to KSh 826.9 billion in December 2017. Credit advanced to the county governments declined by 52.8 per cent to KSh 1.8 billion while credit to enterprises, parastatal bodies and other public entities grew by 7.4 per cent to KSh 108.4 billion in December 2017.

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup> Deposits from commercial banks excluding non-bank financial institutions (NBFIs)

T Bills are Treasury Bills

Table 4.9a: Commercial Banks' Bills, Loans and Advances<sup>1</sup>, 2013-2017

					KSh Million
	2013	2014	2015	2016	2017*
	Dec	Dec	Dec	Dec	Dec
PUBLIC SECTOR:					
National Government $(net)^2 \dots \dots \dots \dots \dots \dots \dots \dots$	464,475	518,729	583,727	709,866	826,900
County Government (net)	-228	278	1,149	3,807	1,797
Enterprises, Parastatal bodies and other Public entities	39,847	48,125	45,173	100,912	108,424
TOTAL PUBLIC SECTOR	504,095	567,131	630,049	814,585	937,122
PRIVATE ENTERPRISES:					
Agriculture	58,656	75,001	85,925	90,081	83,008
Mining and Quarrying	27,804	23,421	20,776	16,802	15,877
Manufacturing	181,687	237,422	290,069	275,018	310,633
Building and Construction	70,770	80,406	106,307	104,826	109,883
Transport, Storage and Communication	89,488	130,304	171,643	201,270	186,744
Wholesale and retail trade, hotels and restaurants	253,198	306,927	378,043	380,683	414,908
Real Estate	198,337	262,691	282,586	337,352	366,486
Financial Institutions	29,924	50,384	61,042	85,212	81,586
Other Business	231,631	306,165	402,179	356,304	345,757
TOTAL PRIVATE ENTERPRISES	1,141,496	1,472,721	1,798,569	1,847,548	1,914,883
Community and Personal Services (including Non-Profit Making					
Institutions)	226,200	316,187	360,292	389,591	383,598
Other Activities (nec)	183,594	108,696	84,890	79,886	83,304
TOTAL BILLS, LOANS AND ADVANCES	2,055,385	2,464,736	2,873,800	3,127,888	3,316,619

Source: Central Bank of Kenya

4.15. The sectoral shares of commercial banks credit for the period 2013 to 2017 are shown in Table 4.9b. The share of loans and advances to the public sector rose from 26.0 per cent in December 2016 to 28.3 per cent in December 2017. The share of credit to public enterprises, parastatal bodies and other public entities increased to 3.3 per cent in 2017 from 3.2 per cent in 2016. In 2017, transport, storage and communication, agriculture and other business sectors recorded marginal declines in credit. During the same period, manufacturing sector recorded a marginal increase in credit.

<sup>\*</sup> Provisional

 $<sup>^{1}</sup>Commercial\ Banks'\ bills, loans\ and\ advances\ excludes\ portfolio\ investment\ by\ private\ enterprises\ and\ banks'\ bills, loans\ and\ advances\ excludes\ portfolio\ investment\ by\ private\ enterprises\ and\ banks'\ bills, loans\ and\ advances\ excludes\ portfolio\ investment\ by\ private\ enterprises\ and\ banks'\ bills, loans\ and\ advances\ excludes\ portfolio\ investment\ by\ private\ enterprises\ and\ banks'\ bills, loans\ and\ advances\ excludes\ portfolio\ investment\ by\ private\ enterprises\ and\ banks'\ bills, loans\ and\ advances\ excludes\ portfolio\ investment\ by\ private\ enterprises\ and\ banks'\ bills, loans\ and\ advances\ excludes\ portfolio\ investment\ by\ private\ enterprises\ and\ banks'\ bills, loans\ and\ advances\ bills, l$ 

deposits placed with non-bank financial institutions.

 $<sup>^2</sup>$ Credit to National Government includes investments in Government Securities

Table 4.9b: Commercial Banks' Bills, Loans and Advances Sector Shares<sup>1</sup> 2013–2017

					Per cent
	2013	2014	2015	2016	2017*
	Dec	Dec	Dec	Dec	Dec
PUBLIC SECTOR					
National Government <sup>1</sup>	22.6	21.0	20.3	22.7	24.9
County Government	0.0	0.0	0.0	0.1	0.1
Enterprises, Parastatal bodies and other Public entities	1.9	2.0	1.6	3.2	3.3
TOTAL PUBLIC SECTOR	24.5	23.0	21.9	26.0	28.3
PRIVATE ENTERPRISES					
Agriculture	2.9	3.0	3.0	2.9	2.5
Mining and Quarrying	1.4	1.0	0.7	0.5	0.5
Manufacturing	8.8	9.6	10.1	8.8	9.4
Building and Construction	3.4	3.3	3.7	3.4	3.3
Transport, Storage and Communication	4.4	5.3	6.0	6.4	5.6
Wholesale and retail trade, hotels and restaurants	12.3	12.5	13.2	12.2	12.5
Real Estate	9.6	10.7	9.8	10.8	11.0
Financial Institutions	1.5	2.0	2.1	2.7	2.5
Other Business	11.3	12.4	14.0	11.4	10.4
TOTAL PRIVATE ENTERPRISES	55.5	59.8	62.6	59.1	57.7
Community and Personal Services (including Non-Profit Making Institutions)	11.0	12.8	12.5	12.5	11.6
Other Activities (nec)	8.9	4.4	3.0	2.6	2.5
TOTAL BILLS, LOANS AND ADVANCES	100.0	100.0	100.0	100.0	100.0

Source: Central Bank of Kenya

Note: Commercial banks, bills, loans and advances excludes portfolio deposits placed with non-bank financial institutions investment by private enterprises and bank

<sup>1</sup>Credit to National Government includes investments in Government Securities

4.16. Deposit liabilities and liquid assets of commercial banks for the period 2013 to 2017 are presented in Table 4.10. Deposit liabilities held by commercial banks grew by 10.7 per cent to KSh 3,068.7 billion in December 2017 from KSh 2,771.7 billion in December 2016. Liquid assets increased by 13.8 per cent to KSh 1,444.2 billion in 2017. The overall liquidity ratio rose from 45.8 per cent in December 2016 to 47.1 per cent in December 2017.

<sup>\*</sup> Provisional

Table 4.10: Commercial Banks' Deposit Liabilities and Liquid Assets, 2013-2017

	Deposit Liabilities <sup>1</sup> (KSh Million)	Liquid Assets <sup>1,2</sup> (KSh Million)	Overall Liquidity Ratio (Per cent)
2013 December	1,970,227	925,443	47.0
2014 December	2,327,188	1,050,496	45.1
2015 December	2,661,140	1,162,557	43.7
2016 December	2,771,711	1,269,312	45.8
2017* January	2,774,513	1,269,254	45.7
February	2,802,035	1,275,379	45.5
March	2,857,127	1,321,215	46.2
April	2,929,283	1,373,858	46.9
May	2,949,869	1,401,673	47.5
June	2,971,434	1,429,483	48.1
July	3,003,284	1,457,788	48.5
August	3,011,002	1,464,545	48.6
September	3,016,446	1,481,195	49.1
October	3,029,319	1,463,610	48.3
November	3,022,727	1,435,421	47.5
December	3,068,724	1,444,155	47.1

Source: Central Bank of Kenya.

Deposit 4.17. Table 4.11 presents performance of Deposit Taking Savings and Credit cooperatives **Taking Savings** (DTSs). The assets of DTSs grew by 12.6 per cent to KSh 442.9 billion in 2017 from KSh and Credit 393.5 billion in 2016. Total deposits recorded a growth of 12.6 per cent to KSh 307.0 billion Cooperatives while loans and advances grew by 10.8 per cent to KSh 320.1 billion during the review period. Capital reserves increased by 46.5 per cent from KSh 61.3 billion in 2016 to KSh 89.8 billion in 2017.

Table 4.11: Performance of Deposit Taking Savings and Credit Cooperatives 2014-2017

KSh Million

				TOHTHIOH
Indicator	2014	2015	2016	2017*
Assets	301,537	342,848	393,499	442,919
Deposits	205,974	237,440	272,579	306,988
Loans and Advances	228,524	251,080	288,921	320,091
Capital Reserves	43,086	50,835	61,261	89,813

Source: Sacco Society Regulatory Authority

Capital 4.18. Table 4.12 shows the performance of the secondary market for the period 2013 to 2017. Markets The Nairobi Securities Exchange (NSE) 20-Share index rose to 3,712 points in December 2017 compared to 3,186 points recorded in December 2016. The total number of shares traded also increased from 5.8 billion in 2016 to 7.1 billion during the period under review. Total value of shares traded increased from KSh 147 billion in 2016 to KSh 172 billion during the period under review. Total bond turnover declined from KSh 433 billion in 2016 to KSh 429 billion in 2017. Market capitalization increased by 30.5 per cent from KSh 1,932 billion as at end of 2016 to KSh 2,522 billion as at end of 2017. The total number of licensed/approved institutions in the capital market reduced by 1 to 132 in 2017.

<sup>\*</sup> Provisional

 $<sup>^{1}</sup>$  Deposits and Liquid Assets are calculated as an average of three days balances.

<sup>&</sup>lt;sup>2</sup> Includes notes and coins, balances at Central Bank, net inter-bank balances in Kenya and Overseas (included only if positive) and Treasury Bills.

<sup>\*</sup>Provisional

Table 4.12: Secondary Market Statistics, 2013-2017

	2013	2014	2015	2016	2017*
Equities Market					
Total No. of Shares Traded (million)	7,576	8,233	6,812	5,809	7,065
Total No. of Deals	426,327	548,991	406,632	300,183	284,982
Total Value of Shares Traded (KSh billion)	156	216	209	147	172
NSE 20 Share Index (Base Jan 1966=100)	4,927	5,113	4,040	3,186	3,712
Market Capitalization (KSh billion)	1,921	2,316	2,054	1,932	2,522
Fixed Income Securities Market					
Total bond Turnover (KSh billion)	452	506	305	433	429
Capital Markets, Licensed/approved Institutions					
Securities Exchange	1	1	1	1	1
Central Depositories	1	1	1	1	1
Investment Banks	10	13	14	14	14
Stockbrokers	11	10	9	10	10
Investment advisers	16	17	17	13	14
Fund Managers	20	24	25	28	26
Collective Investment Schemes	16	19	20	23	23
Authorized depositories/Custodians	15	14	14	14	14
Credit Rating Agencies	2	3	3	3	3
Venture Capital Companies	1	1	1	1	0
Real Estate Investment Trust Managers		2	6	8	8
Real Estate Investment Trust Trustees			3	3	3
Employee Share Ownership Plans (ESOPS)	10	10	11	11	14
Authorized Real Estate Investment Trusts				3	1
Total	103	115	125	133	132

Source: Capital Markets Authority

**Insurance** 4.19. Table 4.13 presents performance indicators for life insurance business from 2013 to 2017. The bulk of the life insurance business was life business, which stood at 97.3 per cent of the asset base. Total assets in life business grew by 15.8 per cent to KSh 353.6 billion in 2017. On the other hand, total liabilities increased by 18.3 per cent to stand at KSh 307.6 billion in 2017. Other indicators that recorded significant growth include; benefits payment, investments, net premium income and gross premium income that grew by 24.1, 17.3, 14.2 and 13.6 per cent, respectively. Commissions declined by 4.3 per cent in life business and grew by 10.8 per cent in life re-insurance to stand at KSh 5.4 billion and KSh 0.7 billion, respectively.

> 4.20. In 2017, assets in life re-insurance grew by 10.5 per cent to KSh 9.9 billion while liabilities rose to KSh 4.8 billion. Life re-insurance gross premium income increased by 15.8 per cent to KSh 2.8 billion in 2017. Investments in life re-insurance grew by 5.9 per cent compared to a rate of 17.3 per cent in life business segment in 2017.

<sup>\*</sup> Provisional

Table 4.13: Performance of Life Insurance Business, 2013-2017

KSh Million 2013 2015 2016 2017\* Indicator 2014 Life Business Gross Premium Income..... 44,346 56,483 61,243 73,062 82,971 Net Premium Income..... 41,707 52,613 56,514 67,579 77,165 Benefits Payment ..... 23,506 27,165 28,264 36,985 45,912 Commissions..... 3,659 4,380 5,078 5,598 5,357 Management Expenses..... 7,333 9,451 11,176 12,011 12,020 45,962 Shareholders' Funds..... 28,467 36,566 36,259 45,258 195,854 240,086 268,976 305,389 353,608 Assets..... Liabilities..... 167,386 203,520 232,717 260,131 307,646 175,311 218,774 242,750 271,906 318,922 Investments..... Re-insurance Life 2,771 Gross Premium Income..... 1,425 1,622 2,087 2,393 Net Premium Income..... 1,270 1,424 1,813 2,069 2,445 Benefits Payment..... 530 537 767 1,038 1,208 347 443 533 606 672 Commis sions..... 291 Management Expenses..... 154 198 249 313 Shareholders' Funds..... 3,482 4,366 4,124 4,643 5,164 6,812 8,044 8,983 9,923 Assets..... 6,210 Liabilities..... 2,728 2,446 3,920 4,340 4,759 Investments..... 6,025 6,494 7,713 8,529 9,029

Source: Insurance Regulatory Authority

4.21. Table 4.14 presents performance for general insurance business from 2013 to 2017. Assets of general insurance business increased by 3.6 per cent to KSh 179.0 billion while liabilities increased by 2.7 per cent to KSh 108.6 billion in 2017. Gross premium income increased by 2.5 per cent to KSh 124.7 billion in 2017.

4.22. Under the re-insurance general business segment, assets grew by 11.1 per cent to KSh 42.3 billion while liabilities increased by 6.5 per cent to KSh 15.7 billion in 2017. Gross premium income grew by 14.6 per cent to stand at KSh 17.5 billion in 2017.

<sup>\*</sup> Provisional

Table 4.14: Performance for General Insurance Business, 2013-2017

					KSh Million
Indicator	2013	2014	2015	2016	2017*
General Business					
Gross Premium Income	86,656	101,297	112,134	121,674	124,709
Net Premium Income	63,241	74,023	82,986	89,213	87,552
Net Earned Premium Income	58,508	70,208	79,578	86,148	90,044
Claims Incurred	33,442	41,895	49,131	53,701	54,861
Commis s ions	3,785	4,877	5,986	6,718	6,819
Management Expenses	17,034	20,967	24,531	26,120	27,808
Shareholders' Funds	50,290	61,582	65,984	67,018	70,397
Assets	128,968	146,174	163,977	172,809	179,023
Lia bilities	78,678	84,593	97,992	105,792	108,626
Investments	81,929	100,827	111,067	113,637	117,483
Re-insurance General business					
Gross Premium Income	11,021	14,752	16,357	15,267	17,494
Net Premium Income	10,629	14,160	15,728	14,498	16,778
Net Earned Premium Income	9,947	13,117	15,000	14,846	15,931
Claims Incurred	5,051	7,521	8,616	7,993	9,218
Commis sions	2,920	3,833	4,186	4,167	4,560
Management Expenses	870	1,192	1,615	1,522	1,900
Shareholders' Funds	15,966	20,030	21,800	23,369	26,640
Assets	26,945	33,238	36,220	38,069	42,290
Liabilities	10,979	13,208	14,420	14,701	15,650
Investments	21,206	26,276	28,306	29,243	32,763

Source: Insurance Regulatory Authority

# Developments in the financial sector

# Capital Markets

4.23. In 2017, the Capital Markets Authority (CMA) published a Policy Guidance Note to facilitate the issuance, listing and trading of Global Depository Receipts and Notes. This is expected to raise the country's profile as an attractive investment destination by providing opportunities for international investors.

# Pensions

4.24. In 2017, there were 21 fund managers, 30 administrators and 11 custodians registered by the Retirement Benefits Authority (RBA) to offer services to registered pension schemes. The retirement benefit assets grew by 5.2 per cent to KSh 963.0 billion in June 2017 from KSh 831.8 billion in June 2016.

# Insurance

4.25. Policy initiatives advanced in 2017 include the Area Yield Index Insurance (AYII) and the Kenya Livestock Insurance Projects (KLIP). These products are meant to cushion farmers from unpredictable losses due to weather changes and disease outbreak.

# Savings and Credit Cooperative Societies (SACCOs)

4.26. The Finance Act, 2017 amended the Cooperatives Societies Act and Sacco Societies Act, which recognized and introduced Islamic finance business practices and services in the societies. These changes take effect from 1st January 2018.

<sup>\*</sup> Provisional

# **Public Finance**

# Chapter

**Overview** 

 $\P$  he 2017/18 budget was guided by the Government's focus on establishing a sustainable fiscal position through a prudent course of fiscal consolidation and debt stabilization. The fiscal policy was aimed at enhancing revenue mobilization, re-orientation of public expenditure composition towards productive capital spending and priority commitments, and the gradual reduction of non-priority expenditures. The budgetary resource allocation prioritized spending on programmes aligned to the Government's economic transformation agenda.

- 5.2. Overall Fiscal Results: In 2017/18, National Government expenditure is expected to reach KSh 2,777.8 billion, an increase of 21.7 per cent, from an actual expenditure of KSh 2,283.0 billion in 2016/17. Recurrent and development expenditure are estimated at KSh 2,107.2 billion and KSh 670.6 billion respectively, during the review period. Total revenue is expected to grow by 19.6 per cent to KSh 1,710.2 billion in 2017/18. Ordinary revenue is expected to grow by 17.6 per cent to KSh 1,651.0 billion, of which tax revenue is estimated at KSh 1,466.2 billion. The total stock of public debt stood at KSh 3,971.4 billion as at end of June 2017, of which external debt position accounted for 57.8 per cent. In 2017/18, a total of KSh 623.1 billion is estimated to be spent on public debt servicing.
- 5.3. County governments budgeted KSh 395.9 billion, against an estimated total revenue of KSh 401.6 billion, during the review period. Current transfers from National Government to county governments, inclusive of conditional grants, is estimated to increase by 14.4 per cent to KSh 345.7 billion.

5.4. Details of the statement of operations for the National Government for the period 2013/14 to 2017/18 are given in Table 5.1. In 2017/18, total revenue is expected to grow by 19.6 per cent to KSh 1,710.2 billion. Over the same period, the expense is estimated to grow by 19.7 per cent to KSh 2,174.1 billion. Spending on acquisition of non-financial assets, less disposals, is expected to decline by 15.1 per cent to KSh 190.0 billion in the review period. Gross operating balance, is estimated to widen by 20.0 per cent to a deficit of KSh 463.9 billion

> in 2017/18. Similarly, net borrowing balance is estimated to expand by 7.1 per cent to a deficit of KSh 654.0 billion, over the same period. Similarly, net borrowing balance is estimated to expand by 7.1 per cent to a deficit of KSh 654.0 billion.

**National** vernment

Table 5.1: Statement of National Government Operations, 2013/14 - 2017/18

KSh Million

	2013/14	2014/15	2015/16	2016/17*	2017/18 <sup>+</sup>
1. Revenue <sup>1</sup>	1,001,374.83	1,141,155.05	1,265,441.90	1,429,595.63	1,710,234.99
2. Expense	1,173,854.87	1,363,664.25	1,591,959.31	1,816,187.99	2,174,149.32
2.1 Current Expenditure	1,004,233.89	1,178,256.45	1,372,253.58	1,462,394.12	1,828,255.53
2.2 Capital Transfers	169,620.98	185,407.80	219,705.73	353,793.87	345,893.79
3. Gross Operating Balance (1-2)	172,480.04	- 222,509.20	- 326,517.42	- 386,592.36	- 463,914.33
4. Acquisition of Non-Financial Assets(net) <sup>2</sup>	135,008.60	312,101.47	174,078.54	223,827.45	190,049.70
5. Net lending/Borrowing (3-4)	307,488.64	- 534,610.67	- 500,595.96	- 610,419.81	- 653,964.03
FINANCING (6-7)	354,083.37	- 552,127.81	- 482,422.88	- 618,002.94	- 527,041.71
6. Net Acquisition of financial assets	21,189.02	55,045.81	180,977.17	43,894.49	26,351.00
6.1. Domestic	21,189.02	55,045.81	180,977.17	43,894.49	26,351.00
6.2. External	-	-	-	-	-
7. Net Incurrence of liabilities	332,894.35	607,173.62	663,400.05	661,897.43	553,392.71
7.1. Domestic	165,338.55	127,892.59	358,414.55	276,152.79	222,311.76
7.2. Foreign	167,555.79	479,281.03	304,985.50	385,744.64	331,080.94
MEMORANDUM ITEMS:					
8. Public debt redemption	213,953.00	232,950.71	222,896.68	216,943.22	342,332.24
8.1. External	85,253.00	82,949.81	35,633.36	44,839.00	150,334.29
8.2. Internal	128,700.00	150,000.90	187,263.32	172,104.23	191,997.95

<sup>\*</sup> Provisional

5.5. Table 5.2 presents the key fiscal ratios from 2013/14 to 2017/18. Gross operating balance as a percentage of revenue is estimated to worsen to negative 27.13 in 2017/18 from negative 27.04 in 2016/17, while it is expected to worsen significantly as a percentage of net acquisition of non-financial assets in the review period. In 2017/18, net borrowing position is estimated to register marginal improvement, as a percentage of both revenue and total expenditure. The ratio of net short-term borrowing to acquisition of non-financial assets is estimated to improve in the review period. The net borrowing to GDP ratio is estimated to worsen to negative 8.4 in the review period.

Table 5.2: Analysis of Key Fiscal Ratios, 2013/14 - 2017/18

	2013/14	2014/15	2015/16	2016/17*	2017/18 <sup>+</sup>
Gross operating balance as a % of Revenue	-17.22	-19.50	-26.04	-27.04	-27.13
Gross operating balance as a % of Acquisition of					
Non financial assets (net)	-127.75	-71.29	-188.94	-172.72	-244.10
Ratio of Acquisition of Non financial assets (net)					
to Current Expenditure	13.44	26.49	12.69	15.31	10.40
Net lending/Borrowing as % of Revenue	-30.71	-46.85	-39.82	-42.70	-38.24
Net lending/Borrowing as % of Total Expenditure	-20.10	-27.74	-24.80	-26.83	-23.93
External Grants and Loans as % of Acquisition of					
Non financial assets (net)	117.89	104.03	192.20	183.91	205.38
Net Short-Term Borrowing as % of Acquisition of					
nonfinancial assets (net)	-0.64	4.10	143.50	47.79	32.97
Revenue as % of GDP at Current Market Prices	19.85	19.60	18.78	19.13	22.07
Total Government Expenditure as % of GDP at					
Current Market Prices	30.39	33.56	30.38	30.55	35.85
Net lending/Borrowing as % of GDP at Current					
Market Prices	-6.10	-9.18	-7.43	-8.17	-8.44

<sup>\*</sup>Provisional

 $<sup>^{\</sup>scriptscriptstyle +}$ Revised Budget estimates

<sup>1</sup> includes grants

 $<sup>^{2}</sup>$ Acquisition of non financial assets (net) equals acquisition of non financial assets minus gross disposal of non financial assets

<sup>\*</sup>Revised Budget estimates

5.6. The comparison of National Government budgetary estimates and the actual out-turns from 2014/15 to 2016/17, and revised budget estimates for 2017/18, are presented in Table 5.3. In 2016/17, actual revenue collected was 92.7 per cent of the targeted amount of KSh 1,515.0 billion. The absorption of recurrent expenditure was 95.5 per cent of the budgeted amount in 2016/17, while that of development expenditure was 82.2 per cent. Over the same period, 86.2 per cent of the budgeted external financing was realized.

Table 5.3: Comparison of National Government Budget Estimates with Actual Out-turns, 2014/15 - 2017/18

						KSh Million
		2014/15			2015/16	
	Budget	Actual	Difference	Budget	Actual	Difference
Total Ordinary Revenue	1,170,529.35	1,113,037.56	-57,491.79	1,299,912.13	1,235,845.21	-64,066.92
Recurrent Expenditure $^1$	1,411,158.86	1,381,044.87	-30,113.99	1,583,822.92	1,564,285.53	-19,537.39
Recurrent Balance	-7,678.80	-268,007.31	-260,328.51	-61,014.11	-328,440.32	-267,426.21
Development Expenditure	684,360.29	572,464.57	-111,895.72	682,983.39	483,066.22	-199,917.17
External Financing (Net) <sup>2</sup>	368,316.00	507,398.52	139,082.52	484,983.00	334,582.19	-150,400.81
Balance for Domestic Financing (Net)	-323,723.09	-333,073.36	-9,350.27	-259,014.50	-476,924.35	-217,909.85
		2016/17*				
				Printed	Revised	
	Budget	Actual	Difference	Budget	Budget	Difference
Total Ordinary Revenue	1,514,988.77	1,403,691.64	-111,297.12	1,704,503.02	1,650,989.40	-53,513.63
Recurrent Expenditure <sup>1</sup>	1,734,402.94	1,657,215.49	-77,187.45	1,697,960.80	2,107,177.12	409,216.31
Recurrent Balance	-219,414.18	-253,523.85	-34,109.68	6,542.22	-456,187.72	-462,729.94
Development Expenditure	761,705.00	625,780.13	-135,924.87	640,295.24	670,621.48	30,326.24
External Financing $^2$ (Net)	477,762.82	411,648.62	-66,114.19	314,774.47	390,326.54	75,552.07
Balance for Domestic Financing $(Net)$	-503,356.35	-467,655.36	35,701.00	-318,978.56	-736,482.66	-417,504.11

Source: The National Treasury

5.7. Table 5.4 details the National Government's gross receipts on the recurrent account from 2013/14 to 2017/18. Total ordinary revenue is estimated to grow by 17.6 per cent to KSh 1,651.0 billion in 2017/18. Total tax revenue is estimated to increase by 14.8 per cent to KSh 1,466.2 billion, over the same period. In 2017/18, Income tax and Value Added Tax (VAT) are estimated to grow by 15.4 per cent and 14.6 per cent, to KSh 724.0 billion and KSh 388.7 billion, respectively. Tax collection on Income Tax and VAT categories are expected to account for 49.4 per cent and 26.5 per cent of the total tax revenue, respectively, in the review period. The non-tax revenue is expected to account for 11.2 per cent of the total ordinary revenue in 2017/18. The government implemented the Finance Act, 2017 as from 1st January 2018, to provide for clear regulations on administration of Income Tax. The Act is expected to enhance tax revenue yields and compliance.

<sup>\*</sup> Provisional

<sup>+</sup> Revised budget estimates

<sup>&</sup>lt;sup>1</sup>Recurrent expenditure consists of current expenditure, acquisition of non financial assets (net), Consolidated Fund Services and current transfers to county governments

 $<sup>^{2}</sup>$  Includes external grants

Table 5.4: National Government Gross Receipts on the Recurrent Account, 2013/14 - 2017/18

					KSh Million
	2013/14	2014/15	2015/16	2016/17*	2017/18+
Taxes on income, profits and capital gains	449,590.07	509,159.84	569,811.18	627,469.00	723,953.07
In come tax from in dividuals (P.A.Y.E)	249,872.80	279,795.65	286,166.16	336,596.00	387,950.88
In come tax from corporations (other in come tax)	199,717.27	228,785.25	279,834.49	288,454.00	331,183.29
Capital gains taxes		578.95	3,810.54	2,419.00	4,818.90
Taxes on property		-	88.26	-	112.97
Tax on property	-	-	88.26	-	112.97
Value Added Tax (VAT)	232,630.32	259,685.20	289,213.47	339,033.92	388,697.59
VAT on domestic goods and services	107,737.35	127,904.57	160,389.01	194,233.86	219,959.67
VAT on imported goods and services	124,892.97	131,780.63	128,824.45	144,800.06	168,737.91
Taxes on other goods and services	125,363.91	140,243.32	162,593.81	188,971.60	210,076.23
Excise taxes	. 102,029.10	115,871.72	139,540.34	165,473.91	183,661.37
Taxes on use of goods and on permission to use the goods or to perform services and activities	4,910.49	4,650.51	5,780.10	4,594.68	5,245.86
Taxes on goods and services collected as AIA	. 18,424.32	19,721.08	17,273.37	18,903.00	21,169.00
Taxes on international trade transactions	94,232.51	101,040.90	104,433.27	112,890.05	128,589.38
Custom duties	67,554.64	74,047.72	79,187.93	89,943.34	102,390.55
Other taxes on international trade and transactions $\ldots$	. 26,677.87	26,993.18	25,245.33	22,946.71	26,198.83
Other taxes not elsewhere classified	9,986.89	11,467.76	10,423.54	8,595.58	14,813.79
TOTAL TAX REVENUE	911,803.70	1,021,597.03	1,136,563.52	1,276,960.14	1,466,243.01
Social security contributions	. 203.85	871.04	461.91	485.00	167.81
Property income	10,767.53	15,290.28	21,324.81	31,112.40	25,142.83
Sale of goods and services	2,678.84	6,158.28	6,022.75	10,763.79	12,289.28
Fines penalties and forfeitures	1,442.62	2,490.95	2,278.34	1,518.21	2,733.38
Repayments from domestic lending and on-lending	1,618.36	2,897.37	2,389.30	2,628.80	3,808.81
Ministerial Appropriation in Aid	. 35,707.06	56,705.93	62,398.11	75,881.13	135,646.70
Other receipts not elsewhere classified	10,195.77	7,026.70	4,406.48	4,342.17	4,957.56
TOTAL NON-TAX REVENUE	62,614.02	91,440.53	99,281.70	126,731.50	184,746.38
TOTAL ORDINARY REVENUE	974,417.72	1,113,037.56	1,235,845.21	1,403,691.64	1,650,989.40

Source: The National Treasury

P.A.Y.E - Pay As You Earn

AIA- Appropriation in Aid

5.8. The details of import duty levied on selected categories of commodities from 2013 to 2017 are shown in Table 5.5. In 2017, the import duty collected on selected categories of commodities grew by 5.9 per cent to KSh 84.2 billion. In the same period, the import duty collected from food drinks and tobacco registered a growth of 30.4 per cent to KSh 24.2 billion, while transport equipment category registered a growth of 2.1 per cent. Import duty collected from machinery and metals categories declined by 6.3 per cent and 25.7 per cent, respectively, during the review period.

<sup>\*</sup> Provisional

 $<sup>^{\</sup>scriptscriptstyle +}$  Revised budget estimates

Table 5.5: Import Duty Collections on Selected Categories of Commodities, 2013 - 2017

					KSh Million
	2013	2014	2015	2016	2017*
End-Use Category					
Food, drinks and tobacco	11,207.96	13,823.42	16,163.83	18,540.89	24,184.56
Basic materials	2,887.86	3,312.82	3,710.74	5,203.49	5,241.91
Fuels	1,017.90	1,338.13	1,413.23	1,195.70	1,380.31
Chemicals	2,779.13	3,508.57	3,970.02	3,862.54	4,049.70
Textiles	1,607.42	1,814.36	1,638.48	2,288.59	2,652.28
Semi-manufactures 1	4,412.02	4,615.17	4,772.37	4,994.29	5,126.57
Metals	3,679.55	5,116.45	5,315.61	8,594.05	6,385.71
Transport Equipment	15,148.74	17,576.28	19,310.19	16,252.85	16,597.56
Machinery	6,428.76	7,123.38	6,934.12	9,319.10	8,736.48
Miscellaneous commodities	6,062.88	7,179.58	7,924.10	9,246.60	9,833.76
TOTAL	55,232.22	65,408.16	71,152.69	79,498.09	84,188.84

Source: Kenva Revenue Authority

Beer ..... Wines and Spirits.....

Mineral Water, Soft Drinks and Juices ...

Cigarettes..... Airtime..... Financial Transactions..... 

TOTAL .....

5.9. The excise revenue collected from domestically manufactured commodities and services from 2013 to 2017 is presented in Table 5.6. The excise revenue collected from domestically manufactured commodities and services amounted to KSh 82.8 billion in 2017, a growth of 3.1 per cent. Excise revenue from beer and cigarettes grew by 1.6 per cent and 4.9 per cent, respectively in 2017. Similarly, excise revenue from airtime and financial transactions registered growths of 3.8 per cent and 21.1 per cent, respectively. In the same period, excise revenue from the wines and spirits category declined by 17.9 per cent to KSh 8.8 billion.

Table 5.6: Excise Revenue Levied on Commodities and Services<sup>1</sup>, 2013 - 2017

787.01

33,161.96

				KSh Million
2013	2014	2015	2016	2017*
16,886.17	18,996.80	19,525.74	24,443.46	24,842.54
3,036.86	4,638.32	6,148.36	10,681.38	8,772.87
2,252.14	2,474.05	2,514.64	3,318.56	3,464.11
10,199.78	10,281.88	12,230.19	12,440.94	13,052.09
-	-	14,138.80	15,540.89	16,129.29
-	-	7,222.07	11,312.92	13,701.09

2,642.24

80,380.39

2,881.04

82,843.03

902.15

62,681.94

Source: Kenya Revenue Authority

5.10. Table 5.7 shows the financing of investment in non-financial assets by the National Government from 2013/14 to 2017/18. In 2017/18, external loan disbursements are expected to reach KSh 331.1 billion, a decline of 14.2 per cent. External grants disbursements are estimated to more than double to KSh 59.2 billion in the review period. The long-term and short-term domestic borrowing declined by 23.0 per cent to KSh 276.2 billion in 2016/17. Long-term and short-term domestic borrowing is expected to reach KSh 159.7 billion and KSh 62.7 billion, respectively in 2017/18.

2,719.59

36,881.95

<sup>\*</sup> Provisional

<sup>1</sup> Excludes non-metallic mineral manufactures

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup> Domestically manufactured commodities and services

<sup>&</sup>lt;sup>2</sup> Includes revenue from jewelry, cosmetics and locally assembled vehicles

Table 5.7: National Government Financing of Non-Financial Assets, 2013/14 - 2017/18

					KSh Million
	2013/14	2014/15	2015/16	2016/17*	2017/18+
EXPENDITURE:					
A cquisition of Non financial Assets (Net)	135,008.60	312,101.47	174,078.54	223,827.45	190,049.70
TOTAL	135,008.60	312,101.47	174,078.54	223,827.45	190,049.70
FINANCING:	359,851.45	635,291.11	692,996.73	687,801.41	612,638.30
External Grants	26,957.11	28,117.49	29,596.68	25,903.99	59,245.59
LONG TERM BORROWING:	333,764.46	594,392.31	413,598.42	554,928.58	490,734.25
External Borrowing	167,555.79	479,281.03	304,985.50	385,744.64	331,080.94
Long-Term Domestic Borrowing (Net)	166,208.66	115,111.28	108,612.91	169,183.95	159,653.30
SHORT TERM BORROWING:	-870.11	12,781.31	249,801.64	106,968.84	62,658.46
Treasury Bills (Net)	32,811.90	12,947.02	242,092.15	151,172.51	16,450.61
Other Short-Term Borrowing (Net)	-33,682.01	-165.71	7,709.49	-44,203.67	46,207.85
CHA NGE IN CA SH BA LA NCES <sup>1</sup> : Increas e=(-)	-224,842.85	-323,189.64	-518,918.19	-463,973.97	-422,588.60
TOTAL	135,008.60	312,101.47	174,078.54	223,827.45	190,049.70

Source: The National Treasury and Central Bank of Kenya

5.11. Table 5.8 presents National Government expenditure classified by functions from 2014/15 to 2017/18. Total expenditure is expected to grow by 21.7 per cent to KSh 2,777.8 billion in 2017/18. Recurrent and development outlays are estimated to grow by 27.2 per cent and 7.2 per cent, to KSh 2,107.2 billion and KSh 670.6 billion, respectively. Expenditure on economic affairs is expected to decline by 1.2 per cent to KSh 481.0 billion. This is mainly attributable to reduced budget allocation to transport and general economic affairs functions, by 6.3 per cent and 15.2 per cent, respectively. Budgetary outlays on public order and safety, and fuel and energy are estimated to increase by 13.3 per cent and 20.7 per cent, to KSh 154.4 billion and KSh 100.3 billion, respectively. The design of the budget reflects the government's fiscal policy stance towards fiscal consolidation and reorientation of public expenditure composition, which aims at prioritizing capital spending and gradual reduction of non-priority expenditures.

5.12. Outlay on public debt transactions in 2017/18 is estimated at KSh 623.1 billion and accounts for 22.4 per cent of the total budgeted expenditure. Current transfers to county governments, inclusive of conditional grants, is estimated at KSh 345.7 billion, translating to 12.4 per cent of the total expenditure during the review period. Spending on education and general public services for the same period are estimated to grow by 27.6 per cent and 46.8 per cent, respectively. The expenditure on social protection is estimated to grow by 27.5 per cent to KSh 106.9 billion geared towards improving the welfare of the vulnerable groups.

<sup>\*</sup> Provisional.

<sup>+</sup> Revised Budget Estimates

 $<sup>^{1}</sup>$  Balancing item

Table 5.8: National Government Expenditure Classification by Functions of Government, 2014/15-2017/18

												KSh Million
		2014/15			2015/16			2016/17*			$\mathbf{2017/18}^{\scriptscriptstyle +}$	
	Recurrent	Development	Total	Recurrent	Development	Total	Recurrent	Development	Total	Recurrent	Development	Total
General public services	. 94,317.30	37,822.98	132,140.28	143,067.52	73,842.45	216,909.96	145,684.37	83,510.92	229,195.29	223,997.72	112,416.60	336,414.32
Public debt transactions	400,323.71	•	400,323.71	438,225.22	٠	438,225.22	450,654.10	•	450,654.10	623,052.04	•	623,052.04
Transfers of general character betw. levels of govt.	229,263.65	•	229,263.65	264,038.64	•	264,038.64	302, 198.52	•	302,198.52	345,681.02	1	345,681.02
Defense	97,922.50	•	97,922.50	140,588.80	•	140,588.80	129,207.21	•	129,207.21	135,060.38	1	135,060.38
Public order and safety	. 130,774.44	11,020.28	141,794.72	110,563.98	15,709.62	126,273.60	118,800.70	17,431.71	136,232.41	134,414.72	19,973.46	154,388.18
Economic affairs	. 59,226.58	385,137.49	444,364.07	63,523.49	305,979.93	369,503.41	86,556.53	400,242.51	486,799.04	104,887.72	376,159.02	481,046.74
General economic, commercial & labour affairs	5,960.57	25,625.29	31,585.87	12,068.92	50,016.94	62,085.86	14,252.94	8,386.24	22,639.18	11,013.99	8,173.78	19,187.77
Agriculture, forestry, fishing, and hunting	16,490.69	33,951.54	50,442.23	9,956.39	21,587.48	31,543.87	19,624.08	20,718.25	40,342.33	23,968.36	28,548.56	52,516.93
Fuel and energy	2,016.40	62,673.56	64,689.96	1,707.49	71,506.88	73,214.37	2,179.19	80,950.85	83,130.04	2,316.09	98,014.97	100,331.06
Mining, manufacturing and construction	747.72	1,097.12	1,844.84	688.50	531.89	1,220.39	622.59	930.00	1,552.58	1,117.02	1,560.57	2,677.59
Transport	26,326.48	253,691.54	280,018.03	35,423.80	146,140.05	181,563.85	44,345.30	260,420.78	304,766.08	60,446.24	225,271.16	285,717.40
Communication	2,436.71	5,389.04	7,825.75	2,126.28	12,317.40	14,443.68	4,099.25	25,613.25	29,712.50	3,071.45	13,609.73	16,681.18
Other industries	5,248.00	2,709.39	7,957.40	1,552.11	3,879.29	5,431.40	1,433.17	3,223.14	4,656.32	2,954.56	980.25	3,934.81
Environmental protection	10,228.61	7,005.85	17,234.46	13,622.27	4,482.70	18,104.97	8,238.41	3,065.47	11,303.88	14,870.77	5,194.87	20,065.64
Housing and community amenities	3,786.11	71,463.92	75,250.03	5,887.59	37,296.89	43,184.48	7,026.65	55,524.63	62,551.28	11,394.90	72,719.11	84,114.02
Health	28,307.73	21,473.95	49,781.69	19,504.30	15,150.34	34,654.64	29,806.89	26,799.07	56,605.96	29,785.02	35,768.74	65,553.76
Outpatient services	1,531.53	5,251.48	6,783.01	1,464.21	4,978.63	6,442.84	1,308.66	10,319.44	11,628.10	811.63	8,412.43	9,224.06
Hospital services	13,766.20	802.00	14,568.20	11,897.10	5,476.58	17,373.68	13,159.55	5,725.14	18,884.69	15,139.27	1,538.02	16,677.29
Public health services	3,651.59	6,967.62	10,619.21	1,723.59	4,428.18	6,151.78	6,365.65	5,103.20	11,468.85	7,211.27	23,603.39	30,814.65
Health expenditure not elsewhere classified	9,358.42	8,452.85	17,811.27	4,419.39	266.95	4,686.34	8,973.02	5,651.28	14,624.31	6,622.85	2,214.91	8,837.75
Recreation, culture and religion	2,580.50	1,379.01	3,959.50	4,361.86	2,221.45	6,583.31	6,423.00	2,503.84	8,926.84	6,573.57	3,591.25	10,164.82
Education	281,802.51	22,446.22	304,248.74	298,768.91	14,608.41	313,377.32	302,428.82	23,048.12	325,476.95	385,265.12	30,129.95	415,395.07
Administration	. 16,063.46	6,732.61	22,796.07	11,236.48	2,735.11	13,971.58	13,676.43	307.69	13,984.12	18,157.34	251.39	18,408.73
Pre-primary and primary education	113,348.52	691.53	114,040.05	117,839.24	754.03	118,593.27	134,792.90	2,276.91	137,069.81	160,474.33	4,912.69	165,387.01
Secon dary education	84,947.43	2,242.17	87,189.60	96,680.34	1,523.93	98,204.28	88,032.82	5,031.64	93,064.46	100,320.90	2,815.82	103,136.72
Tertiary education	. 65,783.00	12,599.52	78,382.52	70,526.79	5,271.38	75,798.18	65,042.47	15,403.77	80,446.24	103,171.81	21,982.15	125,153.96
Education expenditure not elsewhere classified	1,660.10	180.40	1,840.50	2,486.05	4,323.96	6,810.02	884.20	28.11	912.31	3,140.75	167.90	3,308.65
Social protection	42,511.22	14,714.86	57,226.09	62,132.96	13,774.43	75,907.39	70,190.30	13,653.85	83,844.15	92,194.13	14,668.48	106,862.61
TOTAL OUTLAYS <sup>1</sup>	1,381,044.87	572,464.57	1,953,509.44	1,564,285.53	483,066.22	2,047,351.75	1,657,215.49	625,780.13	2,282,995.62	2,107,177.12	670,621.48	2,777,798.60

Source: The National Treasury

\*Revised estimates 'T oal in this Table vary with that in Table 5.9 by disposal of non financial assets and disposal of financial assets

5.13. Table 5.9 details National Government expenditure by economic classification from 2013/14 to 2017/18. Total expense is estimated to reach KSh 2,174.1 billion, an increase of 19.7 per cent, in 2017/18. Collectively, compensation of employees and use of goods and services, are expected to grow by 23.5 per cent to KSh 773.8 billion in the review period. Current grants is estimated to increase by 24.9 per cent to KSh 625.2 billion. Interest payable on debt is expected to increase by 20.1 per cent to KSh 280.7 billion, which accounts for 10.3 per cent of the budget.

5.14. In the review period, KSh 190.0 billion, representing 7.0 per cent of the total budget, was earmarked to finance acquisition of non-financial assets, less disposals. Expenditure on acquisition of building and structures is expected to increase by 1.5 per cent to KSh 186.6 billion, accounting for 6.8 per cent of the total expenditure. To implement priority capital expenditure programmes, State Owned Enterprises (SOEs) are expected to receive KSh 345.9 billion as capital grants in the review period.

Table 5.9: Economic Analysis of National Government Expenditure, 2013/14-2017/18

					KSh Million
	2013/14	2014/15	2015/16	2016/17*	2017/18 <sup>+</sup>
Expense					
Consumption expenditure on goods and services:					
Compensation of employees	338,086.80	362,713.27	410,807.04	419,797.77	507,742.55
Use of Goods and Services	131,929.13	174,331.96	198,947.90	206,909.14	266,052.85
Total Consumption Expenditure	470,015.93	537,045.23	609,754.94	626,706.91	773,795.41
Subsidies	22,475.46	30,583.64	30,324.21	29,970.48	56,270.67
Interest:					
Domestic	119,065.03	137,635.27	172,857.04	171,323.40	210,147.72
External	12,761.23	29,737.73	42,471.50	62,387.48	70,572.08
Total Interest	131,826.26	167,372.99	215,328.54	233,710.88	280,719.80
Current Grants:					
International organisations	2,919.91	2,807.70	2,744.44	2,619.73	4,774.25
General Government units	123,653.05	163,618.06	174,424.02	192,267.13	261,358.85
County Governments	210,000.05	229,263.65	264,038.64	302,198.52	345,681.02
Other Grants	9,375.04	10,108.08	10,398.21	3,517.27	13,354.25
Total Current Grants	345,948.04	405,797.48	451,605.31	500,602.65	625,168.37
Social benefits	29,221.49	33,704.74	58,120.99	66,755.73	81,475.06
Other expense	4,746.71	3,752.36	7,119.59	4,647.47	10,826.22
Total Current Expenditure	1,004,233.89	1,178,256.45	1,372,253.58	1,462,394.12	1,828,255.53
Capital Grants (Transfers)	169,620.98	185,407.80	219,705.73	353,793.87	345,893.79
1 Total Expense	1,173,854.87	1,363,664.25	1,591,959.31	1,816,187.99	2,174,149.32
2 Acquisition of Non Financial Assets(net)	135,008.60	312,101.47	174,078.54	223,827.45	190,049.70
Building and structures	107,939.30	295,659.70	151,974.19	183,762.76	186,565.66
Machinery and equipment	25,017.81	32,780.25	31,533.32	36,518.50	33,750.31
Inventories	3,917.78	5,714.44	1,735.19	6,294.56	8,804.98
Non-produced assets & Land	1,113.88	1,638.40	8,005.05	5,480.32	5,845.09
Less Disposal of Non financial assets	-2,980.17	-23,691.30	-19,169.21	-8,228.69	-44,916.34
3 Equity Participation and on-lending	7,196.46	18,301.32	39,248.00	17,808.26	26,351.00
4 Public Debt Redemption	213,953.00	232,950.71	222,896.68	216,943.22	342,332.24
Total Outlays (1+2+3+4)	1,530,012.93	1,927,017.76	2,028,182.54	2,274,766.93	2,732,882.26

Source: The National Treasury

<sup>\*</sup> Provisional.

<sup>\*</sup> Revised Budget Estimates

# **Economic Survey 2018**

5.15. Details of the National Government outstanding debt by source from 2013 to 2017 are presented in Table 5.10. The total stock of public debt rose by 24.0 per cent to KSh 3,971.4 billion as at end of June 2017. External debt accounted for 57.8 per cent of the total National Government debt position. External debt grew by 27.7 per cent to stand at KSh 2,294.2 billion, while internal debt rose by 19.2 per cent to KSh 1,677.2 billion, as at end of June 2017. In bilateral debt category, stock of debt from People's Republic of China grew by 52.8 per cent to KSh 478.6 billion, accounting for 12.1 per cent of the total National Government debt position.

5.16. In the multilateral debt category, stock of debt due from International Development Association/International Fund for Agricultural Development (IDA/IFAD) debt rose by 4.4 per cent to KSh 526.6 billion as at June, 2017. Stock of debt from African Development Bank (AfDB) grew by 10.2 per cent to KSh 197.5 billion. The outstanding debt due to commercial banks more than doubled to stand at KSh 426.7 billion as at end of June 2017. The stock of Treasury bonds and Treasury bills accounted for 33.5 per cent and 18.7 per cent respectively of the overall debt position. The Treasury bonds and bills rose by 15.6 per cent and 26.7 per cent to KSh 1,332.0 billion and KSh 744.2 billion, respectively.

Table 5.10: National Government Outstanding Debt by Source, 2013 - 2017

KSh Million

a the					KSh Million
Outstanding as at 30 <sup>th</sup> June	2013	2014	2015	2016	2017*
EXTERNAL DEBT:					
Lending Countries:					
Germany	25,042.37	26,571.29	22,558.54	30,935.11	31,669.11
Japan	86,788.50	84,514.51	79,016.83	94,413.95	91,455.62
France	47,397.05	61,579.73	59,032.26	59,371.47	63,262.08
USA	4,816.04	4,542.27	4,461.92	4,035.13	3,497.23
Netherlands	2,599.67	2,701.91	1,960.29	2,349.99	1,752.72
Denmark	1,987.79	1,991.76	1,437.14	1,540.67	1,355.76
Finland	96.64	93.59	71.43	269.38	1,711.78
China	63,123.40	80,858.59	252,039.33	313,127.34	478,606.83
Belgium	7,607.22	8,096.36	6,141.68	7,468.84	9,938.02
Other	22,048.18	22,907.13	18,337.23	34,838.82	39,319.32
Total(billateral)	261,506.86	293,857.14	445,056.63	548,350.69	722,568.48
International Organisations:					
IDA/IFAD	328,753.29	378,282.41	418,596.27	504,490.39	526,579.50
EEC/EIB	15,769.40	20,657.26	20,624.97	21,073.19	20,399.45
IMF	73,779.44	83,282.16	86,149.90	84,847.00	77,637.37
ADF/AfDB	80,728.61	102,118.16	150,229.35	179,226.58	197,490.09
Other multilateral	8,889.77	9,056.67	9,030.22	9,204.40	22,282.33
Total(multilateral)	507,920.51	593,396.67	684,630.72	798,841.56	844,388.74
Commercial Banks	58,927.52	59,545.24	5,678.32	154,346.23	426,685.45
International Sovereign Bond	0.00	175,253.80	271,258.35	278,031.05	285,207.18
Suppliers' Credit	15,207.35	16,451.86	16,628.21	16,628.00	15,303.14
TOTAL EXTERNAL	843,562.24	1,138,504.71	1,423,252.24	1,796,197.52	2,294,152.98
INTERNAL DEBT:					
Treasury Bills <sup>1</sup>	267,693.15	299,406.15	318,928.15	587,478.70	744,154.90
Treasury Bonds	744,174.06	914,762.09	1,035,706.68	1,152,041.17	1,331,975.09
Non Interest bearing debts <sup>2</sup>	28,888.76	28,273.00	26,615.00	25,559.00	24,448.76
Others(includes stocks)	9,860.00	41,886.01	39,194.54	50,391.63	11,131.70
Less government deposits <sup>3</sup> & on-lending	-161,435.17	-205,520.00	-242,264.49	-408,389.00	-434,475.22
TOTALINTERNAL (net)	889,180.80	1,078,807.25	1,178,179.89	1,407,081.50	1,677,235.21
TOTAL DEBT	1,732,743.04	2,217,311.96	2,601,432.13	3,203,279.02	3,971,388.20

 $Source: The\ National\ Treasury\ and\ Central\ Bank\ of\ Kenya$ 

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup> Excludes Repo Bills

<sup>&</sup>lt;sup>2</sup> Pre-1997 Government Overdraft debt(Repo T-bills)

<sup>&</sup>lt;sup>3</sup> Government deposits in Central Bank and Commercial Banks

5.17. National Government debt servicing, and receipts from interest and loan repayments from 2013 to 2017 are shown in Table 5.11. The net servicing charges, on internal and external debt, grew by 2.8 per cent to KSh 448.0 billion in 2017. In the same period, the receipts on interest and loan repayments rose by 10.0 per cent to KSh 2.6 billion. As at June 2017, net charges on external debt servicing grew by 37.3 per cent to KSh 107.2 billion, while the net domestic debt servicing charges declined by 4.7 per cent to KSh 340.8 billion.

Table 5.11: National Government Debt Servicing, 2013 - 2017

KSh Million

				Interest and Loan			
				Repayment			
		Debt Servicing		Receipts	Net	Servicing Chai	rges
	External	Internal	Total	Internal	External	Internal	Total
2012/13	45,142.66	210,553.11	255,695.76	2,183.55	45,142.66	208,369.56	253,512.21
2013/14	98,014.23	247,765.03	345,779.26	1,618.36	98,014.23	246,146.67	344,160.90
2014/15	112,687.54	287,636.17	400,323.71	2,897.37	112,687.54	284,738.80	397,426.34
2015/16	78,104.86	360,120.36	438,225.22	2,389.30	78,104.86	357,731.06	435,835.92
2016/17*	107,226.48	343,427.63	450,654.10	2,628.80	107,226.48	340,798.83	448,025.30

Source: The National Treasury

5.18. Table 5.12 shows the ratio of National Government external public debt servicing charges to earnings from export of goods and services from 2013 to 2017. The ratio of external debt servicing charges to foreign exchange earnings from exports of goods and services is an indicator of the economy's ability to service external debt. In 2017/18, the percentage of debt servicing charges to export earnings was 9.9 per cent compared to 7.8 per cent recorded in 2016/17.

Table 5.12: National Government Debt Service Charges and Earnings from Export of Goods and Services $^+$ , 2013-2017

	Debt Service	Exports of Goods	External debt service
	Charges on	and Services	Charges as a Percentage of Exports of Goods and
	'External Debt <sup>1</sup>	(Calender Year)	Services
	KSh Million	KSh Million	%
2012/13	45,142.66	945,477.64	4.8
2013/14	98,014.23	988,521.37	9.9
2014/15	112,687.54	1,042,699.82	10.8
2015/16	78,104.86	1,005,109.95	7.8
2016/17*	107,226.48	1,079,589.25	9.9

<sup>\*</sup> Provisional.

 $<sup>^*</sup>$  Provisional

<sup>+</sup> Revised

 $<sup>^{\</sup>rm 1}\,$  Including debt redemption, however, interest payments on drawing on IMF are excluded.

### **Economic Survey 2018**

County 5.19. Table 5.13 presents the annual county governments revenue by source for 2016/17 Governments and 2017/18. County governments revenue is estimated at KSh 401.6 billion in 2017/18, a growth of 20.0 per cent from actual receipts of KSh 334.7 billion in 2016/17. The allocations to county governments are contained in County Allocation of Revenue Act of 2017 and its subsequent amendment in 2017. County governments equitable share grant allocation grew by 7.7 per cent to KSh 302.0 billion, while conditional grants allocation are expected to more than double to KSh 43.7 billion in 2017/18. Total grants from National Government to county governments is estimated to grow by 14.4 per cent to KSh 345.7 billion during the same period. County governments targeted to collect KSh 55.9 billion as own source revenue in 2017/18, compared to KSh 32.5 billion collected in 2016/17.

Table 5.13: County Government revenue, 2016/17 - 2017/18+.

KSh Million

	Equitable S	hare Grant	Condition	nal Grant¹	Annual Loc	al Revenue	Total R	evenue.
County	2016/17	2017/18 <sup>+</sup>	2016/17	2017/18+	2016/17	2017/18+	2016/17	2017/18+
Baringo	4,791.44	4,983.00	338.14	633.20	288.52	450.00	5,418.10	6,066.20
Bomet	5,078.80	5,254.80	258.04	507.54	236.70	228.48	5,573.54	5,990.82
Bungoma	8,282.21	8,758.00	453.23	830.71	661.59	731.90	9,397.03	10,320.61
Busia	5,870.10	5,828.60	301.82	563.41	256.83	612.16	6,428.74	7,004.16
Elgeyo /Marakwet	3,528.85	3,624.00	276.48	424.19	97.32	160.29	3,902.65	4,208.48
Embu	4,141.19	4,107.20	518.72	749.03	416.27	839.78	5,076.17	5,696.01
Garissa	6,227.73	6,659.10	636.79	969.82	81.96	250.00	6,946.48	7,878.92
Homa Bay	6,080.19	6,523.20	352.91	658.74	144.14	209.46	6,577.24	7,391.40
Isiolo	3,298.07	3,775.00	198.35	505.24	94.99	182.86	3,591.41	4,463.11
Kajiado	4,761.28	5,768.20	389.50	510.52	557.09	990.79	5,707.87	7,269.51
Kakamega	9,612.09	9,935.80	917.92	1,227.61	443.18	952.57	10,973.20	12,115.98
Kericho	4,861.02	5,224.60	288.04	464.75	489.98	735.97	5,639.04	6,425.32
Kiambu	8,053.26	9,664.00	879.44	1,093.09	2,032.98	3,127.40	10,965.68	13,884.49
Kilifi	8,029.17	9,950.90	549.60	900.16	620.09	929.66	9,198.86	11,780.72
Kirinyaga	3,817.78	4,409.20	217.80	431.32	320.64	500.00	4,356.23	5,340.52
Kisii	7,654.11	7,429.20	817.59	1,143.79	271.64	850.00	8,743.35	9,422.99
Kisumu	6,130.16	6,553.40	719.54	961.75	1,004.04	1,395.26	7,853.74	8,910.40
Kitui	7,841.48	8,652.30	443.76	840.30	315.35	702.04	8,600.59	10,194.64
Kwale	5,530.69	7,248.00	404.48	694.69	221.01	833.37	6,156.19	8,776.06
Laikipia	3,722.11	4,499.80	290.03	498.22	462.72	700.00	4,474.86	5,698.02
Lamu	2,214.01	2,476.40	265.97	432.51	76.96	90.00	2,556.93	2,998.91
Machakos	7,303.46	7,399.00	716.87	1,033.39	1,259.30	1,557.79	9,279.63	9,990.18
Makueni	6,441.35	6,825.20	309.93	728.06	216.25	450.00	6,967.53	8,003.26
Mandera	9,663.32	9,739.50	364.87	815.81	55.84	231.00	10,084.02	10,786.31
Marsabit	5,599.50	6,583.60	256.05	668.84	128.73	130.00	5,984.28	7,382.44
Meru	7,006.68	7,701.00	2,416.57	4,928.99	552.67	801.78	9,975.92	13,431.76
Migori	6,298.04	6,462.80	535.19	746.90	290.82	450.00	7,124.04	7,659.70
Mombasa	5,608.59	8,154.00	720.25	867.05	3,166.24	3,500.00	9,495.08	12,521.05
Muran g'a	5,779.19	6,191.00	296.52	603.20	506.69	1,100.99	6,582.40	7,895.19
Nairobi City	14,023.51	15,402.00	964.89	3,050.07	10,929.83	20,178.00	25,918.23	38,630.07
Nakuru	8,757.62	9,271.40	853.50	1,127.24	1,548.29	2,500.00	11,159.42	12,898.64
Nandi	5,130.82	5,103.80	269.99	555.83	244.74	419.78	5,645.55	6,079.41
Narok	5,705.71	6,523.20	363.82	655.98	1,533.93	4,014.37	7,603.46	11,193.54
Nyamira	4,482.80	4,620.60	270.34	519.20	93.92	272.46	4,847.06	5,412.25
Nyan darua	4,647.38	4,771.60	236.22	626.08	296.77	371.00	5,180.37	5,768.68
Nyeri	4,800.76	4,952.80	652.98	841.85	643.14	1,000.00	6,096.88	6,794.65
Samburu	3,832.96	3,805.20	212.26	596.60	187.66	301.23	4,232.87	4,703.03
Siaya	5,389.99	5,526.60	323.94	527.57	172.84	270.00	5,886.77	6,324.17
Taita/Taveta	3,571.07	3,895.80	238.34	488.70	172.02	338.47	3,981.43	4,722.96
Tana River	4,299.40	5,345.40	321.55	672.81	27.42	60.00	4,648.38	6,078.21
Tharaka -Nithi	3,385.47	3,684.40	236.85	497.56	78.57	179.92	3,700.90	4,361.88
Trans Nzoia	5,502.55	5,647.40	282.46	603.57	217.89	600.00	6,002.90	6,850.97
Turkana	11,307.01	10,071.70	400.86	936.43	186.32	200.00	11,894.19	11,208.13
Uasin Gishu	5,601.03	5,707.80	253.41	587.97	663.83	1,000.00	6,518.27	7,295.77
Vihiga	4,177.30	4,409.20	246.49	520.87	96.03	220.00	4,519.82	5,150.07
Wajir	7,804.22	8,138.90	343.45	801.28	75.91	200.00	8,223.58	9,140.18
West Pokot	4,654.53	4,741.40	292.77	638.61	83.22	105.32	5,030.52	5,485.33
Total <sup>2</sup>	280,300.00	302,000.00	21,898.52	43,681.02	32,522.87	55,924.08	334,721.39	401,605.10

Source: County Allocation of Revenue Act 2017 and Office of the Controller of Budget

<sup>+</sup> Approved Estimate

 $<sup>^1</sup>$  Includes Conditional Additional Allocations to County Governments from National Government Revenue & Conditional Additional Allocations to County Governments from Loans and Grants

<sup>&</sup>lt;sup>2</sup>The FY 2017/18 Total Includes Ksh 4.0 Billion allocated to County Governments as Conditional Grant Under The KDSP(Level 2) Grant. There is no Information on how it has been distributed to the respective County Governments as at the date of Print.

5.20. County governments expenditure by economic classification are shown in Table 5.1 from 2013/14 to 2017/18. In 2017/18 county governments budgeted expenditure amount to KSh 395.9 billion, a growth of 13.0 per cent from an actual expenditure of KSh 350.4 billion in 2016/17. Compensation of employees is estimated to increase by 26.5 per cent to KSh 149.0 billion, accounting for 37.6 per cent of the total expenditure in 2017/18. Over the same period, outlay on use of goods and services is expected to grow by 25.6 per cent to KSh 89 billion. Spending on acquisition of non-financial assets, is estimated at KSh 104.3 billion, which, the building and structures category is estimated to rise by 13.3 per cent to KSh 79 billion.

Table 5.14: Economic classification of County Governments Expenditure, 2013/14 - 2017/18

KSh Millio

					KSh Millioi
	2013/14	2014/15	2015/16	2016/17*	2017/18
Compensation of Employees	64,262.36	96,212.69	114,943.30	117,767.64	148,972.40
Salaries	51,487.67	71,168.66	83,398.01	87,233.99	106,275.5
Allowances	11,407.41	23,277.19	28,342.60	28,673.89	38,255.59
Social contbributions	1,367.28	1,766.85	3,202.70	1,859.76	4,441.3
Use of goods and services	35,353.92	55,465.22	67,370.85	70,879.15	89,028.14
Utilities, Supplies and Services	895.72	2,457.71	2,984.93	2,073.12	2,783.9
Printing , Advertising and Information Supplies and Services	1,895.56	3,109.46	2,985.69	2,813.14	3,893.3
Rentals	897.73	1,120.94	1,617.53	1,657.73	2,034.3
Communication, Supplies and Services	503.53	686.40	787.93	721.81	1,284.20
Transportation costs	6,520.28	8,955.77	11,745.81	13,309.25	13,260.7
Training Expenses	2,413.92	2,968.22	3,505.32	3,854.77	5,345.7
Hospitality Supplies and Services	2,158.33	3,349.47	4,172.83	5,097.58	5,184.6
Insurance	1,564.41	2,476.30	4,490.18	5,359.23	7,502.69
Specialis ed Materials	4,744.72	9,979.71	11,649.31	11,450.18	15,403.5
Office and General Supplies and Services and ma	1,507.25	1,959.27	1,995.40	1,774.43	2,727.7
Fuel Oil and Lubricants	1,930.10	2,403.35	2,833.50	2,740.61	3,653.7
Other Operating Expenses	6,047.14	12,286.95	14,473.83	14,750.40	17,090.0
Routine Maintenance	4,275.24	3,711.65	4,128.60	5,276.91	8,863.50
Subsidies	330.78	569.82	701.93	387.09	883.2
Interest	4,723.25	5,188.24	7,121.41	6,819.50	4,294.0
Grants	6,708.38	5,715.38	8,215.42	12,454.56	20,408.5
Other expense	1,971.43	7,012.16	8,259.41	40,356.44	607.5
Social benefits	-	6,228.52	7,812.17	10,282.42	9,765.7
Acquisition of Non-financial Assets	42,423.74	91,217.78	97,579.77	84,887.80	104,286.47
Building and Structures	26,428.02	69,270.39	78,728.22	70,374.24	79,732.3
Plant and Machinery	9,748.19	20,457.73	13,718.62	10,420.25	16,826.9
Inventories	-	318.46	1,498.95	1,336.22	2,193.8
Non- produced assets & Land	6,247.53	1,171.20	3,633.99	2,757.08	5,533.2
Acquisition of Financial Assets	1,912.56	3,700.17	5,001.42	6,612.00	17,668.3
Memo Item					
Debt repayment and pending bills	3,711.04				
Total	161,397.47	271,309.98	317,005.69	350,446.59	395,914.54

Source: The National Treasury

5.21. Table 5.15 details the classification of county governments expenditure by function from 2013/14 to 2017/18. Expenditure on general public services is estimated to decreas by 3.0 per cent to KSh 141.4 billion in 2017/18 accounting for 35.7 per cent of the tot expenditure. Spending on economic affairs function is expected to grow by 13.5 per cent to KSh 76.4 billion. Spending on health is estimated to grow by 35.2 per cent to KSh 95.7 billiot to account for 24.2 per cent of the total budget in the review period. Expenditure on education is estimated to grow by 27.6 per cent to KSh 31.4 billion.

<sup>\*</sup> Provisional.

<sup>&</sup>lt;sup>+</sup>Printed estimates

Table 5.15: Expenditure of County Governments Classified by Functions, 2013/14 - 2017/18

KSh Million

	2013/14	2014/15	2015/16	2016/17*	2017/18 <sup>+</sup>
General Public Services	135,187.04	136,218.19	119,555.49	145,768.03	141,350.62
Economic Affairs	11,086.63	40,167.19	67,052.61	67,319.94	76,421.22
General economic affairs	1,312.91	6,286.50	18,547.94	13,331.83	16,443.34
Agriculture	2,876.45	14,199.56	11,169.44	12,963.41	18,297.70
Transport	5,930.08	18,854.74	21,404.53	38,407.28	35,636.82
Other economic Affairs	967.19	826.39	15,930.70	2,617.42	6,043.36
Environmental Protection	873.72	5,277.16	13,724.13	10,164.82	13,758.65
Housing and Community Ammenities	3,532.56	6,997.36	16,749.80	24,814.79	29,449.41
Health	8,492.22	54,671.70	70,732.25	70,774.35	95,666.84
Recreation, Culture and Religion	924.64	7,849.29	6,527.41	6,454.43	7,441.71
Education	1,228.71	19,952.39	21,685.06	24,609.43	31,402.50
Social Protection	71.95	176.70	978.95	540.80	423.58
Total	161,397.47	271,309.98	317,005.69	350,446.59	395,914.54

Source: The National Treasury

## **General Government**

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5.22. Table 5.16 details the consolidated General Government statement of operations from 2013/14 to 2016/17. General Government total revenue amounted to KSh 1,852.3 billion in 2016/17, of which tax revenue accounted for 69.5 per cent. Sale of goods and services, property income, and ministerial appropriation-in-aid accounted for 10.2, 3.7 and 4.1 per cent of the total revenue, respectively. Expense grew by 29.6 per cent to KSh 2,092.8 billion in 2016/17. Compensation of employees and use of goods and services accounted for 31.7 per cent and 28.9 per cent of the total expense, respectively. Interest, grants and social benefit expenses accounted for 11.7, 17.2, and 5.1 per cent, respectively of the General Government total expense. Spending on net acquisition of non-financial assets grew by 55.6 per cent to KSh 630.6 billion in 2016/17. General Government net borrowing position rose to KSh 871.1 billion, attributable to the significant increase in the spending on acquisition of non-financial assets.

<sup>\*</sup> Provisional.

<sup>+</sup> Printed estimates

 $Table \ 5.16: General \ Government \ Consolidated \ Statement \ of \ Operations, 2013/14-2016/17$ 

KSh Million

				KSh Million
	2013/14	2014/15	2015/16	2016/17*
Revenue	1,225,962.31	1,396,517.75	1,512,511.60	1,852,314.93
Tax revenue	911,803.70	1,021,597.03	1,146,919.50	1,286,570.08
Social contributions	18,641.02	24,327.98	41,551.71	40,229.48
Grants:				
International organisation	26,957.11	28,117.49	29,596.68	25,903.99
Other revenue	268,560.49	322,475.25	294,443.71	499,611.39
Sale of Goods & Services	115,138.26	130,735.55	119,079.23	188,998.66
Property in come	26,732.09	36,115.03	45,873.89	69,129.44
Ministerial AIA	35,707.06	56,705.93	62,398.11	75,881.13
Fines, Penalties &Forfeits	42,937.85	47,223.77	12,443.68	120,959.95
Other transfers NEC	48,045.23	51,694.96	54,648.79	44,642.20
Expense	1,138,323.36	1,374,151.43	1,615,033.25	2,092,767.13
Compensation of employees	502,780.39	565,049.02	622,268.55	662,755.98
Use of goods and services	315,788.63	385,918.19	415,166.74	603,833.68
CFC/Depreciation	10,586.23	12,553.52	13,914.36	17,316.18
Interest	136,549.51	173,186.76	225,287.27	244,399.66
Subsidies	22,806.24	31,153.46	42,568.02	30,357.58
Grants:				
International Organisation	2,919.91	2,807.70	2,744.44	2,619.73
Other General Government	110,059.16	145,439.43	188,534.89	358,176.38
Social benefits.	29,621.71	46,681.82	87,974.91	105,772.67
Other expense	7,211.58	11,361.54	16,574.08	67,535.26
Net Operating Balance	87,638.95	22,366.32	-102,521.65	-240,452.20
Acquisition of Non-Financial Assets	332,831.65	545,267.39	405,355.54	630,618.77
Building and Structures	277,905.47	477,866.97	353,524.46	395,147.32
Machinery and equipment	25,241.26	62,972.48	46,433.17	71,308.81
Inventories	4,927.51	9,806.33	6,185.47	4,966.99
Non-produced Assets and Land	27,737.59	18,312.92	18,381.65	167,424.35
Disposal of non-financial assets		-23,691.30	-19,169.21	-8,228.69
Net lending/Borrowing	-245,192.70	-522,901.08	-507,877.19	-871,070.97
Net Financial Worth	-231,391.88	-515,293.04	-436,194.06	-685,213.76
Transactions in Financial assets	103,254.34	84,156.71	264,618.14	217,011.06
Currency and deposits	18,991.13	37,385.83	189,861.24	97,284.15
Debt securities	-4,435.56	9,271.23	21,484.01	9,351.67
Loans	50,462.99	30,636.93	41,784.49	25,289.28
Equity and investment fund shares	69,576.36	859.40	-5.88	24,650.21
Accounts receivable		6,003.32	11,494.28	60,435.74
Transactions in Liabilities	334,646.21	599,449.75	700,812.20	902,224.82
Debt securities	200,690.15	310,666.87	350,705.06	320,356.46
Domestic	165,338.55	127,892.59	350,705.06	320,356.46
Foreign	35,351.60	182,706.78	0.00	0.00
Loans		304,943.23	322,550.71	500,233.55
Equity and investment fund shares	1	0.00	0.00	33,321.86
Accounts payable		-16,160.35	27,556.43	48,312.95

<sup>\*</sup>Provisional

# **International Trade and Balance of Payments**

Chapter 06

### **Overview**

uring the review period, the Government launched a National Trade Policy, aimed at spurring economic growth. The policy targets to enhance export growth through value addition in export oriented manufactures and in the services sector, as well as pursuing diversification to fully exploit the export opportunities in the emerging markets. Consequently, a Trade Remedies Bill was developed and approved by Parliament, and assented into law, by the President. The implementation of the law will address unfair trade practices from imports which adversely affects the Country's domestic industries, and widens the trade deficit.

6.2. In 2017, merchandise trade deficit continued to widen from KSh 853.7 billion in 2016 to KSh 1,131.5 billion. This was mainly driven by high import bill which grew by 20.5 per cent from KSh 1,431.8 billion to KSh 1,725.6 billion, over the same period. The main drivers of the import bill were industrial machinery; petroleum products; road motor vehicles; iron and steel; animal and vegetable fats and oils; and sugar. Total exports increased by 2.8 per cent from KSh 578.1 billion in 2016 to KSh 594.1 billion in 2017. The major foreign exchange earners in the review period were tea; horticulture; articles of apparel and clothing accessories; coffee; and titanium ores and concentrates, collectively accounting for 64.8 per cent of total domestic export earnings, during the review period. The volume of trade expanded by 15.4 per cent to KSh 2,319.8 billion in 2017 compared to a 6.9 per cent decline in 2016. The ratio of export to import deteriorated from 40.4 per cent in 2016 to 34.4 per cent in 2017.

6.3. The current account balance widened by 38.3 per cent to a deficit of KSh 518.9 billion in 2017 from a deficit of KSh 375.3 billion in 2016. Net international services increased by 11.4 per cent from a surplus of KSh 144.4 billion in 2016 to a surplus of KSh 160.9 billion in 2017. Receipts from international services increased by 14.0 per cent while payments for international services rendered grew by 15.3 per cent in 2017. Receipts from international travel partly contributed to the increase in services inflows. Net financial inflows increased by 13.4 per cent from a surplus of KSh 420.0 billion in 2016 to a surplus of KSh 476.1 billion in 2017. Other investment net inflows increased by 18.0 per cent to a surplus of KSh 513.4 billion in 2017 compared to an increase of 20.2 per cent in 2016. During the review period, the overall Balance of Payments worsened to a deficit of KSh 16.9 billion from a surplus of KSh 13.1 billion in 2016.

## Balance of Trade

6.4. The balance of trade deficit widened from KSh 853.7 billion in 2016 to KSh 1,131.5 billion in 2017, as shown in Table 6.1. This was occasioned by a 20.5 per cent increase in imports from KSh 1,431.8 billion in 2016 to KSh 1,725.6 billion in 2017.

6.5. Total exports increased by 2.8 per cent from KSh 578.1 billion in 2016 to KSh 594.1 billion in 2017 on account of increase in domestic exports. Domestic exports increased from KSh 506.5 billion in 2016 to KSh 530.6 billion in 2017, representing an increase of 4.8 per cent. Re-exports registered a decline of 11.2 per cent to KSh 63.5 billion in 2017. The ratio of export to import deteriorated from 40.4 per cent in 2016 to 34.4 per cent in 2017, as a result of faster growth in imports relative to exports.

**Table 6.1: Balance of Trade, 2013-2017** 

					KSh Million
DESCRIPTION	2013	2014	2015	2016	2017*
EXPORTS <sup>1</sup> (f.o.b):					
Domestic Exports	455,689	460,572	499,708	506,548	530,617
Re-exports	46,598	76,664	81,337	71,519	63,511
Total	502,287	537,236	581,045	578,067	594,128
IMPORTS <sup>1</sup> (c.i.f):					
Commercial	1,403,225	1,599,619	1,540,731	1,389,741	1,671,724
Government	10,091	18,702	36,826	42,014	53,899
Total	1,413,316	1,618,321	1,577,557	1,431,755	1,725,623
BALANCE OF TRADE	(911,029)	(1,081,085)	(996,512)	(853,688)	(1,131,494)
TOTAL TRADE	1,915,602	2,155,557	2,158,602	2,009,821	2,319,751
COVER RATIO <sup>2</sup> (in percentage)	35.5	33.2	36.8	40.4	34.4

Source: Kenya National Bureau of Statistics/Kenya Revenue Authority

f.o.b: free on board

c.i.f: cost, insurance and freight

## Price changes

6.6. Table 6.2(a) presents export and import unit price indices by commodity groups of Standard International Trade Classification (SITC) for the period 2013 to 2017. The unit price indices for all exports and non-oil exports increased by 5.6 per cent each, in 2017. This was mainly on account of an increase in the unit prices of commodities broadly classified under sections of manufactured goods; food and live animals; and inedible crude materials. On the other hand, the export unit price indices for chemicals; and animal and vegetable oil and fats reduced by 40.0 per cent and 19.2 per cent, respectively. The contraction in the unit price index for chemicals was occasioned by decline in export prices of medicaments.

6.7. During the review period, the unit price indices for all imports and non-oil imports rose by 10.5 per cent and 6.7 per cent, respectively. The increase was mainly attributed to the growth in unit price indices of mineral fuels (31.6%), inedible crude materials (20.4%), and machinery and transport equipment (13.4%). However, import unit price index for beverages and tobacco declined by 16.7 per cent. The decline was partly as a result of the decline in import prices of alcoholic beverages.

<sup>\*</sup>Provisional

<sup>&</sup>lt;sup>1</sup>Excludes data on Informal Cross Border Trade and Electricity

<sup>&</sup>lt;sup>2</sup>COVER RATIO =(Total Exports/Total Imports)\*100

Table 6.2(a): Export and Import Price Indices, 2013-2017

					2009=100
	2013	2014	2015	2016	2017*
EXPORTS:					
Food and live animals	133	121	155	146	170
Beverages and tobacco	133	142	126	161	168
Crude materials, (inedible)	126	125	124	103	114
Mineral fuels	150	219	193	115	108
Animal and vegetable oils and fats	125	128	136	156	126
Chemicals	114	134	155	185	111
Manufactured goods	113	112	117	108	132
Machinery and transport equipment	286	246	225	244	213
Miscellaneous manufactured articles	188	165	183	184	191
All Exports	136	132	149	142	150
Non-oil Exports	136	131	148	143	151
IMPORTS:					
Food and live animals	174	170	176	169	191
Beverages and tobacco	172	136	133	150	125
Crude materials, (inedible)	126	139	152	157	189
Mineral fuels	200	187	134	95	125
Animals and vegetable oils and fats	140	145	124	135	149
Chemicals	158	147	145	143	161
Manufactured goods	140	126	150	145	147
Machinery and transport equipment	181	227	275	292	331
Miscellaneous manufactured articles	164	189	169	150	167
All imports	168	180	196	181	200
Non-oil Imports	160	178	214	209	223

Terms of 6.8. The ratio of export price index to import price index for the period 2013 to 2017 is **Trade** presented in Table 6.2(b). Terms of trade for all items worsened by 3.5 percentage points to 75.0 per cent in 2017. The terms of trade for non-oil items deteriorated marginally from 68.4 per cent in 2016 to 67.7 per cent in 2017, continuing the four year downward trend.

Table 6.2(b): Terms of Trade, 2013-2017

					2009=100
DESCRIPTION	2013	2014	2015	2016	2017*
All Items	81.0	73.3	76.0	78.5	75.0
Non-oil Items	85.0	73.6	69.2	68.4	67.7

<sup>\*</sup> Provisional

### Volume changes

6.9. Quantum indices for exports and imports are shown in Table 6.2(c). Overall, the export quantum indices for non-oil items and all items declined by 2.7 per cent and 1.8 per cent to 110, respectively, in 2017. This was mainly driven by a decline in the export quantum indices of most of the categories except chemicals and mineral fuels. Notably, the decline was recorded in machinery and transport equipment; manufactured goods; and animal and vegetable oil and fats which reduced by 37.7, 25.0 and 12.1 per cent, respectively, in the review period.

6.10. The overall import quantum indices for non-oil items and all imports increased by 10.6 per cent and 7.9 per cent, to 104 and 109, respectively, during the review period. This was mainly occasioned by substantial increases in import quantum indices for the broad categories of food and live animals (96.1%), animal and vegetable oils and fats (16.8%), and beverages and tobacco (10.1%). However, import quantum indices declined for inedible crude materials (22.1%), chemicals (7.1%), and machinery and transport equipment (3.1%) in 2017.

Table 6.2(c): Quantum Indices<sup>1</sup>, 2013-2017

				2	009=100
	2013	2014	2015	2016	2017*
EXPORTS:					
Food and live animals	110	116	109	120	114
Beverages and tobacco	105	111	124	85	75
Crude materials, (inedible)	103	135	138	183	179
Mineral fuels	41	42	49	64	70
Animal and vegetable oils and fats	112	80	58	66	58
Chemicals	115	97	89	74	120
Manufactured goods	132	120	107	100	75
Machinery and transport equipment	48	45	55	61	38
Miscellaneous manufactured articles	84	108	100	98	96
All Exports	104	110	105	112	110
Non-oil Exports	105	112	107	113	110
IMPORTS:					
Food and live animals	64	73	78	76	149
Beverages and tobacco	141	158	143	149	164
Crude materials, (inedible)	117	118	122	113	88
Mineral fuels	99	112	108	132	133
Animals and vegetable oils and fats	125	125	138	143	167
Chemicals	122	139	157	155	144
Manufactured goods	149	171	162	162	164
Machinery and transport equipment	92	100	82	64	62
Miscellaneous manufactured articles	134	126	164	174	185

Provisional

of Principal

6.11. The quantity of principal exports for the period 2013 to 2017 is presented in Table 6.3(a). The quantity of exported titanium ores and concentrates declined by 13.2 per cent Domestic to 533.8 thousand tonnes in 2017. The quantity of exported cement decreased further from 420.2 thousand tonnes in 2016 to 387.6 thousand tonnes in the review period. Similarly, the quantity of exported fluorspar declined drastically from 48.7 thousand tonnes to 8.9 thousand tonnes over the same period, mainly due to the suspension of mining operations over low demand. The quantity of soda ash exported rose from 258.7 thousand tonnes in 2016 to 342.6 thousand tonnes in 2017 while quantity of salt exported rose from 306.3 thousand tonnes in 2016 to 320.4 thousand tonnes in 2017. Quantity of exported tea and horticulture declined by 2.7 per cent and 8.8 per cent to 467.0 thousand tonnes and 457.2 thousand tonnes, respectively, in 2017. The quantity of articles of plastic decreased by 9.4 per cent to 43.3 thousand tonnes due to the ban on the use of plastics paper ban. Other commodities that exhibited notable decline in quantities exported in 2017 included: tobacco and tobacco manufactures (15.5%); iron and steel (21.8 %); and paper and paperboard (47.5 %). The quantity of exported edible products and preparations (28.7%), glassware (24.8%) and leather (12.1%) increased during the review period.

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<sup>&</sup>lt;sup>1</sup>Measures changes in volume of trade

Table 6.3(a): Quantities of Principal Domestic Exports, 2013-2017

	Unit of	,				
Commodity	Quantity	2013	2014	2015	2016	2017*
Fish and fish preparations	Tonne	11,712	15,213	10,801	5,995	5,321
Maize(unmilled,excluding sweet corn)	Tonne	1,236	1,678	2,007	3,191	5,420
Meals and flours of wheat	Tonne	3,076	2,308	3,250	1,479	1,648
Horticulture	Tonne	394,387	434,950	443,076	501,573	457,201
Sugar confectionery	Tonne	30,159	28,986	29,988	28,836	31,064
Coffee, unroasted	Tonne	48,890	47,438	43,600	45,303	43,469
Tea	Tonne	446,033	456,492	420,527	479,969	467,033
Margarine and shortening	Tonne	15,924	17,097	18,397	17,787	18,102
Edible products and preparations, n.e.s	Tonne	13,561	14,751	18,399	19,789	25,463
Beer made from malt	000 Lt.	48,166	65,572	64,565	31,332	28,594
Tobacco and tobacco manufactures	Tonne	23,466	21,016	15,961	25,367	21,439
Hides and Skins	Tonne	2,832	2,560	2,272	2,777	1,105
Sisal	Tonne	10,010	10,093	9,015	9,595	7,441
Stone, sand and gravel	Tonne	29,632	45,460	38,678	104,493	92,408
Fluorspar	Tonne	78,002	94,021	70,096	48,662	8,926
Salt	Tonne	289,487	269,111	303,452	306,324	320,442
Soda Ash	Tonne	478,822	396,095	272,520	258,703	342,639
Titanium ores and concentrates <sup>1</sup>	Tonne		360,525	493,201	614,609	533,762
Metal scrap	Tonne	4,478	5,091	5,814	10,657	12,647
Animal and Vegetable oils	Tonne	70,339	49,827	37,357	57,275	36,059
Alcohols and derivatives thereof	000 Lt.	18,558	15,033	19,246	17,456	5,407
Pigments, paints, varnishes and related materials	Tonne	11,949	12,886	14,733	13,204	14,338
Medicinal and pharmaceutical products	Tonne	12,419	13,285	13,095	13,379	13,877
Essential oils	Tonne	94,157	87,779	78,356	81,769	88,158
Plates, sheets, film, foil and strip, of plastics	Tonne	7,927	8,479	7,247	5,309	5,194
Insecticides and fungicides	Tonne	1,416	1,597	2,209	2,314	2,455
Leather	Tonne	26,542	26,213	23,329	21,657	24,271
Wood manufactures n.e.s	Tonne	468	401	529	309	263
Paper and paperboard	Tonne	41,760	34,043	33,208	62,374	32,770
Textile yarn	Tonne	2,046	1,601	1,648	1,553	1,921
Made-up articles, wholly or chiefly of textile materials, n.e.s	Tonne	11,464	16,619	16,679	11,018	7,764
Glassware	Tonne	22,693	13,411	13,106	11,373	14,193
Cement	Tonne	826,941	720,465	681,665	420,157	387,593
Iron and steel	Tonne	155,442	137,561	124,190	139,019	108,717
Metal containers	Tonne	2,831	3,162	2,542	3,569	2,456
Wire products: nails screws, nuts, etc	Tonne	9,232	8,265	6,585	4,581	7,212
Household equipment of base metal, n.e.s	Tonne	10,401	9,841	7,614	9,690	6,225
Manufactures of base metal, n.e.s	Tonne	7,572	8,217	11,889	10,741	11,480
Automatic data processing machines and units thereof;	No's	45,737	106,895	76,375	25,031	33,050
Footwear	' 000' Pairs	52,021	40,092	32,634	37,176	34,480
Printed matter	Tonne	6,553	9,006	6,854	6,724	4,909
Articles of plastic	Tonne	48,370	58,488	52,629	47,382	43,307

Source: Kenya National Bureau of Statistics/Kenya Revenue Authority

### Quantities of Principal Imports

6.12. The quantity of principal imports for the period 2013 to 2017 is presented in Table 6.3(b). There was a marked increase in the quantities of imported wheat, maize and sugar in 2017, as a result of the drought experienced in the country. The quantity of unmilled wheat imported rose from 1,362.3 thousand tonnes in 2016 to 1,855.0 thousand tonnes in 2017. During the review period, the quantity of maize imported increased almost nine times due to reduced production of maize, in the country. Imports of rice rose from 508.0 thousand tonnes in 2016 to 625.1 thousand tonnes in 2017. Quantity of sugar imports, which include molasses and honey tripled from 377.3 thousand tonnes in 2016 to 1,119.6 thousand tonnes in 2017, mainly due to reduced production of sugarcane. Quantities of imported chemical fertilizers rose by 27.0 per cent to 853.1 thousand tonnes in 2017. Similarly, quantities of imported animal and vegetable fats and oils rose from 750.5 thousand tonnes in 2016 to 850.5 thousand tonnes in 2017. The number of imported road motor vehicles increased by 11.0 per cent to 94,464, in the review period. The quantity of cement clinker imported reduced by 24.9 per cent to 1,504.6 thousand tonnes in 2017 while that of imported iron and steel declined by 4.8 per cent to 1,374.7 thousand tonnes, in the same period.

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup> The first batch of Titanium ores was exported in 2014

Table 6.3(b): Quantities of Principal Imports, 2013-2017

Commodity         Unit of Quantity         2013         2014         2015         2016           Wheat, unmilled         Tonne         1,033,054         1,225,690         1,421,785         1,362,309           Rice         Tonne         409,576         459,165         442,736         507,999           Maize(unmilled,excluding sweet corn)         Tonne         93,473         458,940         490,024         148,558           Wheat flour         Tonne         30,853         33,178         16,306         15,925           Sugars, Mollases and Honey         Tonne         276,542         228,834         286,732         377,334           Edible products and preparations, n.e.s         Tonne         48,347         54,264         93,869         93,952	2017* 1,854,954 625,143 1,327,972 13,951 1,119,609 104,973 20,125 135,868 5,542
Wheat, unmilled         Tonne         1,033,054         1,225,690         1,421,785         1,362,309           Rice         Tonne         409,576         459,165         442,736         507,999           Maize(unmilled,excluding sweet corn)         Tonne         93,473         458,940         490,024         148,558           Wheat flour         Tonne         30,853         33,178         16,306         15,925           Sugars, Mollases and Honey         Tonne         276,542         228,834         286,732         377,334           Edible products and preparations, n.e.s         Tonne         48,347         54,264         93,869         93,952	1,854,954 625,143 1,327,972 13,951 1,119,609 104,973 20,125 135,868
Rice         Tonne         409,576         459,165         442,736         507,999           Maize(unmilled,excluding sweet corn)         Tonne         93,473         458,940         490,024         148,558           Wheat flour         Tonne         30,853         33,178         16,306         15,925           Sugars, Mollases and Honey         Tonne         276,542         228,834         286,732         377,334           Edible products and preparations, n.e.s         Tonne         48,347         54,264         93,869         93,952	625,143 1,327,972 13,951 1,119,609 104,973 20,125 135,868
Maize (unmilled, excluding sweet corn)         Tonne         93,473         458,940         490,024         148,558           Wheat flour         Tonne         30,853         33,178         16,306         15,925           Sugars, Mollases and Honey         Tonne         276,542         228,834         286,732         377,334           Edible products and preparations, n.e.s         Tonne         48,347         54,264         93,869         93,952	1,327,972 13,951 1,119,609 104,973 20,125 135,868
Wheat flour         Tonne         30,853         33,178         16,306         15,925           Sugars, Mollases and Honey         Tonne         276,542         228,834         286,732         377,334           Edible products and preparations, n.e.s         Tonne         48,347         54,264         93,869         93,952	13,951 1,119,609 104,973 20,125 135,868
Sugars, Mollases and Honey       Tonne       276,542       228,834       286,732       377,334         Edible products and preparations, n.e.s.       Tonne       48,347       54,264       93,869       93,952	1,119,609 104,973 20,125 135,868
Edible products and preparations, n.e.s	104,973 20,125 135,868
	20,125 135,868
	135,868
Textile fibres and their waste	
Second-hand clothing	5,542
Petroleum products	
Residual petroleum products, n.e.s. and related materials   Tonne   71,863   72,684   116,450   71,781	87,124
Liquefied propane and butane	198,482
Animal/vegetable fats and oils	850,497
Organic and inorganic chemicals         Tonne         256,736         389,311         268,454         279,396	279,540
Pigments, paints, varnishes and related materials         Tonne         27,718         28,932         34,410         38,004	43,331
Medicinal and pharmaceutical products         Tonne         17,187         20,713         24,954         25,873	24,791
Essential oils and perfumes	64,353
Chemical fertilizers	853,113
Plastics in primary and non-primary forms	453,784
Insecticides and fungicides	17,986
Miscellaneous chemical products, n.e.s	50,076
Rubber tyres and inner tubes, for wheels of all kinds	8,124
Paper and Paperboard	365,371
Textile yarn	19,696
Cement Clinkers	1,504,627
Iron and steel	1,374,713
Non-ferrous metals	46,036
Structures and parts of structures of iron, steel or aluminium Tonne 52,612 66,405 95,065 103,981	69,821
Hand and machine tools	9,472
Manufactures of base metal, n.e.s	45,873
Industrial Machinery <sup>1</sup>	
Agricultural Machinery and Tractors <sup>1</sup>	
Automatic data processing machines and units thereof;	1,245
Telecommunications equipment, n.e.s., and parts, n.e.s. 1	
Parts, n.e.s. and accessories of the motor vehicles <sup>1</sup>	
Motorcycles and cycles fitted with an auxilliary motor	200
Bicycles, assembled or partly assembled	151
Road Motor Vehicles	94,464
Aircraft and associated equipment 1	
Prefabricated buldings	19,263
Furniture and parts thereof	
Quality control instruments and apparatus, n.e.s. 1	
Printed matter	8,876
Articles, n.e.s., of plastics	42,346

Source: Kenya National Bureau of Statistics/Kenya Revenue Authority

### Values of Principal Domestic Exports

6.13. Table 6.4(a) presents the values of principal domestic exports from 2013 to 2017. Earnings from domestic exports of commodities rose by 4.8 per cent from KSh 506.5 billion in 2016 to KSh 530.6 billion in 2017. Tea remained the leading export earner with earnings increasing by 18.3 per cent to KSh 147.3 billion during the same period. In 2017, horticultural export earnings maintained an upward trend at KSh 113.3 billion, accounting for 21.4 per cent of the total value of domestic exports. The value of domestic exports of articles of apparel and clothing accessories; coffee; and titanium ores and concentrates, also registered remarkable increase. Earnings from domestic exports of soda ash rose for the first time in five years to KSh 7.1 billion in 2017.

6.14. Earnings from domestic exports of tobacco and tobacco manufactures declined by 5.8 per cent to KSh 13.7 billion in 2017. Other commodities that recorded reduced earnings in 2017 included iron and steel (11.1%); medicinal and pharmaceutical products (17.0%); articles of plastic (11.2%); animal and vegetable oils (27.9%); salt (6.8%) and cement (19.6%).

<sup>\*</sup> Provisional.

<sup>&</sup>lt;sup>1</sup> Items have different units of measurements

Table 6.4(a): Values of Principal Domestic Exports, 2013-2017

		KSh Mil				
Commodity	2013	2014	2015	2016	2017*	
Fish and fish preparations	3,362	4,266	3,287	1,899	2,125	
Maize(unmilled,excluding sweet corn)	192	324	312	511	766	
Meals and flours of wheat	145	87	138	65	72	
Horticulture	89,339	97,105	100,963	110,338	113,349	
Sugar confectionery	5,401	5,345	5,475	4,895	5,073	
Coffee, unroasted	16,328	19,913	20,580	21,371	23,453	
Tea	104,648	93,996	123,025	124,497	147,251	
Margarine and shortening	2,245	2,349	2,307	2,126	2,368	
Edible products and preparations, n.e.s	2,573	2,637	4,048	4,329	5,985	
Beer made from malt	3,636	3,416	3,630	2,316	2,521	
Tobacco and tobacco manufactures	13,709	16,827	15,757	14,574	13,736	
Hides and skins (undressed)	134	126	124	171	51	
Sisal	1,020	1,325	1,517	1,762	1,220	
Stone, sand and gravel	389	643	444	726	579	
Fluorspar	1,714	1,883	1,428	843	159	
Salt	2,978	3,881	4,694	4,337	4,040	
Soda ash	8,997	7,832	6,247	5,432	7,091	
Titanium ores and concentrates <sup>1</sup>		7,282	9,420	11,043	13,793	
Metal scrap	2,498	3,403	2,598	2,490	3,328	
Animal and Vegatable oils	8,156	6,036	4,650	6,040	4,356	
Alcohols, phenols, phenol-alcohols, and their halogens	1,758	1,447	2,059	1,605	405	
Pigments, paints, varnishes and related materials	1,628	1,894	2,271	1,818	2,172	
Medicinal and pharmaceutical products	7,068	8,296	11,199	13,190	10,952	
Essential oils	11,172	10,854	9,822	9,139	10,113	
Plates, sheets, film, foil and strip, of plastics	2,415	2,641	2,419	1,995	1,637	
Insecticides and fungicides	771	805	1,546	2,034	1,716	
Leather	8,491	7,597	6,222	4,605	5,088	
Wood manufactures n.e.s	159	146	124	107	135	
Paper and paperboard	5,342	4,406	4,773	4,994	4,855	
Textile yarn	885	721	721	637	859	
Made-up articles, wholly or chiefly of textile materials, n.e.s	2,881	3,772	3,400	3,018	2,081	
Glassware	1,855	840	910	607	924	
Cement	8,292	7,541	7,721	4,360	3,505	
Iron and steel	15,560	13,443	12,290	13,183	11,717	
Metal containers	500	556	575	575	512	
Wire products: nails screws, nuts, etc	1,036	1,295	992	646	1,077	
Household equipment of base metal, n.e.s	3,392	3,508	2,659	2,709	1,907	
Manufactures of base metal, n.e.s	1,948	1,938	2,633	2,553	2,562	
Automatic data processing machines and units thereof;	980	331	236	337	167	
Electrical machinery and apparatus, n.e.s	2,706	2,025	2,022	6,285	1,518	
Trailers and semi-trailers; other vehicles	2,597	2,041	1,624	1,494	948	
Furniture and parts thereof; bedding, mattresses	1,922	1,697	1,421	1,215	1,068	
Footwear	3,992	3,569	3,694	3,473	3,229	
Printed matter	3,442	4,271	6,363	5,205	5,683	
Articles of plastics	10,263	10,995	11,174	9,907	8,801	
Articles of apparel and clothing accessories	24,379	28,948	28,226	30,741	32,448	
All other Commodities	62,789	56,319	61,964	60,351	63,222	
GRAND TOTAL	455,689	460,572	499,708	506,548	530,617	

Source: Kenya National Bureau of Statistics/ Kenya Revenue Authority

Values of 6.15. Import bill rose by 20.5 per cent from KSh 1,431.8 billion in 2016 to KSh 1,725.6 billion **Principal** in 2017, as shown in Table 6.4(b). The increase in imports of petroleum products partly **Imports** contributed to the increase in the total value of imports, with their import value rising by 27.8 per cent to KSh 234.9 billion in 2017. Expenditure on sugar more than doubled during the review period from KSh 22.0 billion in 2016 to KSh 61.5 billion in 2017. In the review period, the value of maize imported increased more than tenfold to KSh 40.3 billion from KSh 3.6 billion in 2016. Substantial increase in import value was also recorded in wheat (46.8%), rice (88.6%), iron and steel (10.7%), animal and vegetable fats and oils (28.7%), chemical fertilizers (26.4%), and organic and inorganic chemicals (14.9%) in 2017. Expenditure on automatic data processing machines and motorcycles also rose by 33.1 per cent and 38.6 per

<sup>&</sup>lt;sup>1</sup>The first Batch of Titanium ores was exported in 2014

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cent to KSh 25.2 billion and KSh 11.4 billion, respectively, over the same period. 6.16. The value of imports of industrial machinery decreased by 6.0 per cent from KSh 253.5 billion in 2016 to KSh 238.4 billion in 2017. Likewise, the value of imports of agricultural machinery and tractors declined by 4.9 per cent to KSh 8.5 billion during the same period. Import expenditure on medicinal and pharmaceutical products further declined from KSh 60.5 billion in 2016 to KSh 55.6 billion in 2017. There was a marginal decline in total expenditure on imports of motor vehicles from KSh 85.8 billion in 2016 to KSh 85.2 billion in 2017. Similarly, import bill on rubber tyres declined from KSh 14.3 billion to KSh 14.0 billion over the same period. The value of imported cement clinkers declined for the second consecutive year to KSh 6.5 billion in 2017.

Table 6.4(b): Values of Principal Imports, 2013-2017

					KSh Million
Commodity	2013	2014	2015	2016	
Wheat, unmilled	30,189	33,831	35,663	28,883	42,400
Rice	14,111	15,305	13,370	14,200	26,782
Maize(unmilled,excluding sweet corn)	2,291	9,308	8,378	3,637	40,265
Wheat flour	1,964	1,712	902	767	618
Sugars, Mollases and Honey	16,770	12,009	15,503	21,953	61,530
Edible products and preparations, n.e.s	7,402	7,463	10,646	12,461	11,942
Textile fibres and their waste	5,099	5,792	6,623	6,365	5,387
Second - hand clothing	8,345	8,815	10,151	12,859	13,061
Petroleum Products	252,673	292,643	214,695	183,842	234,896
Residual petroleum products, n.e.s. and related materials	5,379	5,362	6,635	3,979	4,781
Liquefied propane and butane	5,515	10,834	7,879	7,895	11,749
Animal/vegetable fats and oils	48,371	50,044	47,038	53,285	68,553
Organic & inorganic chemicals	22,303	21,856	22,560	22,677	26,047
Pigments, paints, varnishes and related materials	5,608	6,369	6,872	7,080	7,671
Medicinal & Pharmaceauticals Products	40,114	52,088	61,513	60,455	55,623
Essential oils and perfumes	16,935	18,445	20,901	19,413	21,927
Chemical Fertilizers	27,957	19,331	23,468	23,064	29,159
Plastics in primary & non-primary forms	55,182	60,217	62,724	59,319	61,308
Insecticides and fungicides	10,879	10,797	11,335	11,381	11,892
Miscellaneous chemical products, n.e.s	10,781	12,958	14,417	14,062	15,873
Rubber tyres and inner tubes, for wheels of all kinds	13,189	12,406	13,343	14,270	14,028
Paper and Paperboard	26,864	29,948	29,316	30,065	33,010
Textile yarn	4,106	4,421	4,332	4,137	3,882
Cement Clinkers	7,187	6,563	9,548	8,365	6,545
Iron and Steel	80,749	75,526	88,153	75,469	83,580
Non-ferrous metals	14,626	14,704	14,672	14,353	16,902
Structures and parts of structures, n.e.s., of iron, steel or aluminium	10,011	11,211	14,338	17,141	13,437
Hand and machine tools	3,265	4,082	3,267	2,848	2,626
Manufactures of base metal, n.e.s	8,938	8,459	10,967	11,916	9,258
Industrial Machinery	231,440	256,672	211,724	253,541	238,366
Agricultural Machinery and Tractors	7,802	7,925	8,664	8,918	8,478
Automatic data processing machines and units thereof	15,019	9,720	11,212	18,959	25,233
Telecommunications equipment, n.e.s., and parts, n.e.s	24,160	23,622	29,444	28,694	32,015
Parts, n.e.s. and accessories of the motor vehicles	7,440	8,105	9,674	9,078	9,017
Motorcycles and cycles fitted with an auxilliary motor	8,306	8,002	10,177	8,247	11,432
Bicycles, assembled or partly assembled	429	392	498	357	434
Road Motor Vehicles	83,330	101,792	117,637	85,840	85,220
Aircraft and associated equipment	21,308	129,589	83,094	7,753	11,312
Prefabricated buldings	4,980	6,702	7,000	4,641	4,112
Furniture and parts thereof	5,842	6,325	7,161	7,132	7,965
Quality control instruments and apparatus, n.e.s	12,231	12,110	9,651	9,590	12,692
Printed matter	4,022	4,822	5,060	5,707	8,877
Articles, n.e.s., of plastics	5,623	6,846	8,556	7,802	8,248
All other Commodities	224,583	213,194	268,794	229,352	327,491
GRAND TOTAL	1,413,316	1,618,321	1,577,557	1,431,755	1,725,623

Source: Kenya National Bureau of Statistics/ Kenya Revenue Authority

### Prices of Principal Domestic Exports and Imports

6.17. Tables 6.5(a) and 6.5(b) present the average unit prices of selected domestic exports and imports, respectively. The price of one kilogramme of tea rose by 21.6 per cent in 2017 to KSh 315 up from KSh 259 the previous year. Similarly, the price for one kilogramme of coffee rose by 14.4 per cent to KSh 540 in 2017. Unit price of exported fish and fish preparations also recorded an increase with one kilogramme selling at KSh 399 in 2017 from KSh 317 in 2016. Similarly, unit price of exported titanium ores and concentrates increased by 43.8 per cent to sell at KSh 25,840 per tonne in 2017. The trend was similar in domestic exports of iron and steel with one tonne selling for KSh 107,772 in 2017 from KSh 94,828 the previous year. 6.18. The average price of one tonne of soda ash continued to exhibit a downward trend from KSh 20,998 in 2016 to KSh 20,694 in 2017. Similarly, unit price of exported cement declined from KSh 10,377 per tonne in 2016 to KSh 9,043 per tonne in 2017.

<sup>\*</sup> Provisiona

Table 6.5(a): Average Prices of Principal Domestic Exports, 2013-2017

						KSh/Unit
Commodity	Unit	2013	2014	2015	2016	2017*
DOMESTIC EXPORTS						
Fish and fish preparations	Kg	287	280	304	317	399
Maize(unmilled,excluding sweet corn)	Tonne	155,458	192,874	155,622	160,052	141,418
Meals and flours of wheat	Tonne	47,047	37,827	42,403	43,610	43,716
Horticulture	Kg	227	223	228	220	248
Sugar confectionery	Kg	179	184	183	170	163
Coffee, unroasted	Kg	334	420	472	472	540
Tea	Kg	235	206	293	259	315
Margarine and shortening	Kg	141	137	125	120	131
Edible products and preparations, n.e.s	Kg	190	179	220	219	235
Beer made from malt	Lt.	75	52	56	74	88
Tobacco and tobacco manufactures	Kg	584	801	987	575	641
Hides and Skins(undressed)	Kg	47	49	54	61	46
Sisal	Tonne	101,904	131,316	168,286	183,643	163,996
Stone, sand and gravel	Tonne	13,139	14,139	11,487	6,944	6,265
Fluorspar	Tonne	21,978	20,029	20,368	17,313	17,795
Salt	Tonne	10,288	14,420	15,470	14,157	12,606
Soda Ash	Tonne	18,790	19,774	22,925	20,998	20,694
Titanium ores and concentrates 1	Tonne	-	20,198	19,100	17,968	25,840
Metal scrap	Tonne	557,769	668,406	446,816	233,652	263,139
Animal and Vegetable oils	Kg	116	121	124	105	121
Alcohols, phenols, phenol-alcohols, and the like	Lt.	95	96	107	92	75
Pigments, paints, varnishes and related materials	Kg	136	147	154	138	151
Medicinal and pharmaceutical products	Kg	569	624	855	986	789
Essential oils	Kg	119	124	125	112	115
Plates, sheets, film, foil and strip, of plastics	Kg	305	312	334	376	315
Insecticides and fungicides	Kg	544	504	700	879	699
Leather	Kg	320	290	267	213	210
Wood manufactures n.e.s	Tonne	339,262	364,399	234,694	345,992	513,422
Paper and paperboard	Tonne	127,932	129,436	143,718	80,073	148,155
Textile yarn	Kg	432	450	437	410	447
Made-up articles, wholly or chiefly of textile materials, n.e.s. $ \dots $	Kg	251	227	204	274	268
Glassware	Kg	82	63	69	53	65
Cement	Tonne	10,027	10,466	11,327	10,377	9,043
Iron and steel	Tonne	100,105	97,725	98,965	94,828	107,772
Metal containers	Tonne	176,684	175,708	226,354	161,239	208,254
Wire products: nails screws, nuts, etc	Tonne	112,271	156,752	150,659	141,121	149,362
Household equipment of base metal, n.e.s	Tonne	326,149	356,500	349,294	279,561	306,417
Manufactures of base metal, n.e.s	Tonne	257,235	235,891	221,489	237,724	223,197
Automatic data processing machines and units thereof;	No's	21,434	3,096	24,256	13,460	5,066
Footwear	Pair	77	89	113	93	94
Printed matter	Tonne	525	474	928	774	1,158

Source: Kenya National Bureau of Statistics/Kenya Revenue Authority

6.19. On average, the price of one tonne of imported maize rose by 23.9 per cent from KSh 24,480 in 2016 to KSh 30,321 in 2017. A similar trend was observed in the wheat imports, with a tonne exchanging for KSh 22,858 in 2017 from KSh 21,201 in 2016. One tonne of rice nearly doubled from KSh 27,953 in 2016 to KSh 42,841 in 2017. On the contrary, the unit price of one tonne of sugar declined by 5.5 per cent during the review period to KSh 54,957.

6.20. The unit price of one litre of petroleum products imports increased by 26.5 per cent from KSh 34 in 2016 to KSh 42 in 2017. The average price of one tonne of imported chemical fertilizers declined, albeit marginally, for the second consecutive year to exchange for KSh 34,180. A marginal increase in the unit price of a tonne of imported clinker was registered in 2017 with the commodity exchanging for KSh 4,350. A tonne of imported iron and steel recorded a 16.3 per cent increase to KSh 60,798 in 2017 from KSh 52,269 in 2016.

<sup>&</sup>lt;sup>1</sup> first batch of Titanium ores was exported in 2014

<sup>\*</sup> Provisional

Table 6.5(b): Average Prices of Principal Imports, 2013-2017

						KSh/Unit
Commodity	Unit	2013	2014	2015	2016	2017*
Wheat, unmilled	Tonne	29,223	27,601	25,083	21,201	22,858
Rice	Tonne	34,453	33,331	30,198	27,953	42,841
Maize, unmilled	Tonne	24,506	20,283	17,098	24,480	30,321
Wheat flour	Tonne	63,660	51,590	55,294	48,143	44,313
Sugars, Mollases and Honey	Tonne	60,642	52,478	54,070	58,179	54,957
Edible products and preparations, n.e.s	Tonne	153,102	137,528	113,411	132,632	113,760
Textile fibres and their waste	Tonne	280,434	288,866	308,641	296,716	267,671
Second - hand clothing	Tonne	82,574	82,402	91,735	97,463	96,132
Petroleum products	Lt.	67	63	42	34	42
Residual petroleum products, n.e.s. and related materials	Kg	75	74	57	55	55
Liquefied propane and butane	Kg	99	97	61	47	59
Animal and vegetable oils	Kg	76	80	69	71	81
Organic & inorganic chemicals	Kg	87	56	84	81	93
Pigments, paints, varnishes and related materials	Kg	202	220	200	186	177
Medicinal & Pharmaceauticals Products	Kg	2,334	2,515	2,465	2,337	2,244
Essential oils & pefumes	Kg	367	333	378	346	341
Chemical fertilizers	Tonne	40,609	38,969	41,273	34,333	34,180
Plastics in primary & non-primary forms	Tonne	146,241	150,473	137,724	126,365	135,104
Insecticides and fungicides	Tonne	737,003	708,822	738,833	678,209	661,190
Miscellan eous chemical products, n.e.s	Tonne	289,454	333,286	273,018	282,553	316,984
Rubber tyres and inner tubes, for wheels of all kinds	No.	2,307	2,033	2,075	1,840	1,727
Paper and Paperboard	Tonne	87,829	85,281	88,532	86,224	90,346
Cement Clinkers	Tonne	5,036	5,021	4,839	4,177	4,350
Iron and steel	Tonne	66,304	63,135	57,594	52,269	60,798
Non-ferrous metals	Tonne	278,116	275,797	287,634	279,256	367,154
Structures and parts of structures of iron, steel or aluminium	Tonne	190,280	168,826	150,822	164,846	192,442
Hand & machine tools	Kg	306	359	288	245	277
Manufactures of base metal, n.e.s	Tonne	270,469	258,327	165,995	197,718	201,823
Automatic data processing machines and units thereof;	No.	9,285	24,024	20,831	18,491	20,263
Motorcycles and cycles fitted with an auxilliary motor	No.	50,253	53,953	55,888	56,510	57,241
Bicycles, assembled or partly assembled	No.	2,583	2,801	3,083	3,302	2,870
Road Motor Vehicles	No.	903,108	983,339	1,071,563	1,009,082	902,141
Prefabricated buldings	Tonne	224,952	245,686	233,249	254,944	213,480
Printed matter	Tonne	427,753	471,934	379,909	501,803	1,000,032
Articles, n.e.s., of plastics	Tonne	148,883	137,511	185,452	154,050	194,780

Source: Kenya National Bureau of Statistics/Kenya Revenue Authority

 $<sup>^{</sup>st}$  Provisional.

## **Exports**

Composition of 6.21. Table 6.6 shows the composition of domestic exports by Broad Economic Category for 2013 to 2017. Domestic exports of food and beverages increased by 11.3 per cent to KSh 254.7 billion and accounted for 48.0 per cent of all the domestic exports in 2017. Domestic exports of primary food and beverages for household consumption constituted the bulk of exports within this category at 72.7 per cent. The category of consumer goods not elsewhere specified continued to be the second leading source of export earnings amounting to KSh 133.7 billion, with a share of 25.2 per cent of the total domestic exports. There was a marginal increase in the value of domestic exports of non-food industrial supplies during the review period.

Table 6.6: Domestic Exports by Broad Economic Category, 2013-2017

•					KSh Million
DESCRIPTION	2013	2014	2015	2016	2017*
FOOD AND BEVERAGES	195,094	188,094	223,281	228,789	254,686
Primary	153,613	147,099	182,774	187,837	211,355
For Industry	18,982	22,101	22,630	23,471	26,255
For Household Consumption	134,631	124,998	160,145	164,366	185,100
Processed	41,482	40,995	40,507	40,952	43,331
For Industry	5,256	4,312	2,478	3,516	3,209
For Household Consumption	36,226	36,683	38,029	37,436	40,122
INDUSTRIAL SUPPLIES (Non-Food)	126,192	124,452	129,288	124,176	125,402
Primary	24,669	39,428	40,896	44,739	48,247
Processed	101,523	85,024	88,392	79,437	77,155
FUEL AND LUBRICANTS	1,610	3,281	6,288	4,546	5,253
Primary	8	5	9	13	48
Processed	1,602	3,275	6,279	4,533	5,205
Motor Spirit	190	60	38	125	45
Other	1,412	3,215	6,240	4,407	5,160
MACHINERY & OTHER CAPITAL EQUIPMENT	9,736	7,503	9,522	13,257	7,086
Machinery & Other Capital Equipment	7,867	6,116	7,565	11,845	5,860
Parts and Accessories	1,868	1,387	1,957	1,412	1,225
TRANSPORT EQUIPMENT	8,130	7,235	7,118	5,826	4,431
Passenger Motor Vehicles	122	92	454	516	259
Other	4,522	3,505	3,744	3,551	2,100
For Industry	4,402	3,250	3,571	3,474	2,012
Non-Industrial	120	255	173	77	88
Parts and Accessories	3,487	3,638	2,921	1,759	2,073
CONSUMER GOODS NOT ELSEWHERE	113,537	128,463	124,180	129,879	133,744
Durable	3,819	4,503	1,449	1,258	1,407
Semi-Durable	31,404	35,417	35,088	35,462	35,388
Non-Durable	78,314	88,544	87,643	93,159	96,949
GOODS NOT ELSEWHERE SPECIFIED	1,390	1,544	31	77	16
TOTAL	455,689	460,572	499,708	506,548	530,617
SHARES:					
Food and Beverages	42.81	40.84	44.68	45.17	48.00
Industrial Supplies (Non-Food)	27.69	27.02	25.87	24.51	23.63
Fuel and Lubricants	0.35	0.71	1.26	0.90	0.99
Machinery and other Capital Equipment	2.14	1.63	1.91	2.62	1.34
Transport Equipment	1.78	1.57	1.42	1.15	0.84
Consumer Goods not elsewhere specified	24.92	27.89	24.85	25.64	25.21
Goods not elsewhere specified	0.31	0.34	0.01	0.02	0.00
TOTAL	100.00	100.00	100.00	100.00	100.00

<sup>\*</sup> Provisional

### Composition of Imports

6.22. The composition of imports by Broad Economic Category for 2013 to 2017 is presented in Table 6.7. Non-food industrial supplies remained the dominant category of imports with a share of 31.9 per cent of the total imports in 2017. Imports of processed non-food industrial supplies which constitute the bulk of imports in this category increased by 6.9 per cent to KSh 521.9 billion in 2017. Imports of machinery and other capital equipment declined marginally from KSh 312.1 billion in 2016 to KSh 310.8 billion in 2017 but emerged the second leading category of imports in 2017, and accounted for 18.0 per cent of the total imports. Expenditure on fuels and lubricants accounted for 16.1 per cent of the total import expenditure in 2017, up from a share of 14.5 per cent in 2016. This was largely driven by imports of processed fuels and lubricants which rose from KSh 204.3 billion in 2016 to KSh 272.9 billion in 2017. Expenditure on imports of food and beverages more than doubled from KSh 114.6 billion in 2016 to KSh 245.3 billion in 2017, in a bid to cushion against the food shortage as a result of the drought experienced in the country. The surge in imports within this category was observed for both imports of primary and processed food and beverages. This resulted in an increase of 6.2 percentage points in the contribution of imports of food and beverages to the total imports in 2017. Imports of other industrial transport equipment were the main drivers of growth in imports of transport equipment which rose from KSh 147.5 billion in 2016 to KSh 197.4 billion in 2017.

Table 6.7: Total Imports by Broad Economic Category, 2013-2017

•					KSh Million
	2013	2014	2015	2016	2017*
FOOD AND BEVERAGES	101,590	111,838	123,444	114,560	245,280
Primary	48,048	59,437	66,528	48,528	114,010
For Industry	39,624	50,767	53,985	37,677	90,909
For Household Consumption	8,425	8,670	12,543	10,850	23,101
Processed	53,542	52,401	56,915	66,033	131,270
For Industry	8,933	8,981	10,934	15,125	57,459
For Household Consumption	44,609	43,420	45,981	50,907	73,810
INDUSTRIAL SUPPLIES (Non-Food)	450,479	462,172	524,556	518,672	551,065
Primary	25,862	26,051	29,318	30,389	29,144
Processed	424,617	436,121	495,238	488,283	521,921
FUELAND LUBRICANTS	326,305	346,745	237,295	208,055	277,653
Primary	43,940	3,998	3,789	3,797	4,783
Processed	282,365	342,747	233,506	204,258	272,870
Motor Spirit	58,685	70,683	57,035	53,148	70,873
Other	223,680	272,064	176,471	151,109	201,996
MACHINERY AND OTHER CAPITAL EQUIPMENT	250,873	278,709	287,544	312,076	310,772
Machinery and Other Capital Equipment	200,349	225,337	242,172	251,200	260,182
Parts and Accessories	50,524	53,372	45,372	60,876	50,590
TRANSPORT EQUIPMENT	160,841	278,706	266,874	147,466	197,402
Passenger Motor Vehicles	44,604	51,430	56,138	50,047	53,894
Other	72,054	191,815	170,092	58,736	103,199
Industrial	61,998	181,963	158,164	48,951	90,422
Non-Industrial	10,055	9,853	11,928	9,786	12,777
Parts and Accessories	44,183	35,461	40,645	38,682	40,309
CONSUMER GOODS NOT ELSEWHERE SPECIFIED					
	96,299	113,537	125,884	126,668	138,256
Durable	24,386	22,469	23,899	23,736	25,779
Semi-Durable	20,738	27,853	32,100	30,795	39,025
Non-Durable	51,175	63,215	69,884	72,137	73,452
GOODS NOT ELSEWHERE SPECIFIED	26,927	26,616	11,960	4,257	5,194
TOTAL	1,413,316	1,618,321	1,577,557	1,431,755	1,725,623
SHARES:					
Food and Beverages	7.19	6.91	7.82	8.00	14.21
Industrial Supplies (Non-Food)	31.87	28.56	33.25	36.23	31.93
Fuel and Lubricants	23.09	21.43	15.04	14.53	16.09
Machinery and other Capital Equipment	17.75	17.22	18.23	21.80	18.01
Transport Equipment	11.38	17.22	16.92	10.30	11.44
Consumer Goods not elsewhere specified	6.81	7.02	7.98	8.85	8.01
Goods not elsewhere specified	1.91	1.64	0.76	0.30	0.30
TOTAL	100.00	100.00	100.00	100.00	100.00

<sup>\*</sup> Provisional

## Direction of Trade

6.23. The values of total export earnings rose from KSh 578.1 billion in 2016 to KSh 594.1 billion in 2017 as presented in Table 6.8. Total exports to Africa accounted for 37.7 per cent of total exports in 2017, down from 40.6 per cent the previous year. The region remained the leading destination of Kenya's exports despite a 4.6 per cent decline in the value of total exports, during the year under review. The decline in total export earnings from the East African Community (EAC) region is partly attributed to a reduction in the value of total exports to Africa, since the region accounts for more than half of total exports to the continent.

6.24. Total export earnings from Asia continued to rise for the third year in a row to KSh 162.5 billion in 2017. The growth in total export earnings from the region was largely in earnings from exports to the Far East which grew by 23.5 per cent to KSh 111.1 billion in 2017. Total exports to Pakistan rose from KSh 40.3 billion in 2016 to KSh 64.1 billion in 2017, mainly on account of a 59.1 per cent increase in domestic exports of tea which accounted for 95.9 per cent of domestic exports to this destination.

6.25. The value of total exports to the European Union (EU) rose by 3.6 per cent to KSh 125.6 billion in 2017 and constituted 21.1 per cent of total exports. The value of total exports to Netherlands, United Kingdom, France and Belgium went up, jointly amounting to KSh 96.2 billion in 2017, up from KSh 92.9 billion in 2016. The value of total exports to Germany, however, continued to decline, amounting to KSh 11.7 billion in 2017.

6.26. Total export earnings from America continued to exhibit an upward trend during the review period. The sustained growth in total exports to the region is largely attributable to growth in total exports to the USA which accounts for more than 80.0 per cent of total exports to the region. The main export commodities to the United States are articles of apparel and clothing accessories which constitute more than 60 per cent of total domestic exports to the country. In 2017, domestic exports of articles of apparels rose by 5.9 per cent to KSh 30.2 billion. Other commodities that recorded increased earnings from this destination included; coffee (59.5%), edible nuts (42.3%) and tea (8.0%).

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Table 6.8: Values of Total Exports by Destination, 2013-2017

	2013	2014	2015	2016	KSh Million 2017*
EUROPE	2013	2011	2010	2010	2017
WESTERN EUROPE:					
European Union					
Belgium	6,193	6,730	4,540	5,395	6,025
Finland	1,106	1,514	1,973	1,412	1,030
France	5,379	5,689	6,074	6,412	7,773
Germany	8,244	10,786	12,508	11,864	11,741
Italy	4,541	6,960	5,248	3,733	3,409
Netherlands	32,578	40,614	42,041	43,492	43,892
Spain	2,018	2,627	3,239	2,302	2,963
Sweden	2,503	2,731	2,510	3,066	2,863
United Kingdom	37,613	35,868	40,668	37,581	38,553
Poland	1,630	1,847	2,263	1,804	2,214
Other	2,840	4,591	4,867	4,205	5,153
Total	104,645	119,958	125,932	121,267	125,615
Other Western Europe	6,948	8,080	8,527	9,631	8,946
Total Western Europe	111,594	128,038	134,460	130,899	134,561
EASTERN EUROPE:					
Russia Federation	6,831	7,124	8,065	6,996	7,997
Kazakhstan	4,346	3,267	2,855	3,028	3,433
Other	528	536	565	611	995
Total Eastern Europe	11,705	10,927	11,484	10,635	12,425
TOTAL, EUROPE	123,299	138,965	145,944	141,534	146,986
AMERICA					
United States of America	29,936	38,290	40,725	43,354	47,270
Canada	1,297	1,690	2,289	5,729	3,634
Other	2,533	5,684	7,575	3,808 <b>52,891</b>	3,861
TOTALAMERICA AFRICA	33,765	45,664	50,589	52,891	54,765
EAC					
	65.262	60,783	69 574	62,163	61,814
Uganda Tanzania	65,362 40,496	42,725	68,574 33,663	34,797	28,521
Rwanda	13,500		17,950	17,500	17,124
Burundi	5,599	14,441 7,849	6,595	7,242	7,382
Total EAC	124,957	125,798	126,782	121,702	114,841
Rest of Africa	124,937	123,/98	120,782	121,/02	114,641
South Africa	3,277	5,936	4,338	4,149	2,759
Egypt	17,001	17,509	20,166	20,619	19,005
Somalia	16,940	13,202	15,210	17,932	19,661
Ethiopia	4,885	6,919	7,154	8,053	6,982
Sudan	6,425	6,241	5,967	5,361	6,907
South Sudan	16,680	19,823	17,065	16,326	16,752
Democratic Republic of Congo	18,437	21,052	20,673	20,035	18,879
Zambia	6,288	6,668	5,909	5,172	3,869
Other1	16,584	18,215	18,921	15,325	14,210
TOTAL AFRICA	231,474	241,363	242,187	234,673	223,865
ASIA	231,474	241,303	242,107	234,073	223,003
MIDDLE EAST:					
Iran					
11411	2 798	2 283	1 152	1 757	1 524
Ierael	2,798	2,283 1 337	1,152	1,757	
Israel	1,126	1,337	1,449	1,064	747
Jordan	1,126 260	1,337 309	1,449 853	1,064 1,059	747 1,594
JordanSaudi Arabia	1,126 260 3,190	1,337 309 4,879	1,449 853 5,551	1,064 1,059 6,727	747 1,594 7,846
Jordan Saudi Arabia United Arab Emirates	1,126 260 3,190 25,144	1,337 309 4,879 20,198	1,449 853 5,551 29,239	1,064 1,059 6,727 30,974	747 1,594 7,846 26,370
Jordan Saudi Arabia United Arab Emirates Yemen Arab Republic	1,126 260 3,190 25,144 5,044	1,337 309 4,879 20,198 4,356	1,449 853 5,551 29,239 4,023	1,064 1,059 6,727 30,974 4,803	747 1,594 7,846 26,370 6,387
Jordan Saudi Arabia United Arab Emirates	1,126 260 3,190 25,144	1,337 309 4,879 20,198 4,356 2,445	1,449 853 5,551 29,239 4,023 2,941	1,064 1,059 6,727 30,974 4,803 4,140	747 1,594 7,846 26,370 6,387 6,907
Jordan Saudi Arabia United Arab Emirates Yemen Arab Republic Other	1,126 260 3,190 25,144 5,044 1,941	1,337 309 4,879 20,198 4,356	1,449 853 5,551 29,239 4,023	1,064 1,059 6,727 30,974 4,803	1,524 747 1,594 7,846 26,370 6,387 6,907 <b>51,</b> 37 <i>5</i>
Jordan	1,126 260 3,190 25,144 5,044 1,941 39,502	1,337 309 4,879 20,198 4,356 2,445 35,806	1,449 853 5,551 29,239 4,023 2,941 45,207	1,064 1,059 6,727 30,974 4,803 4,140 50,525	747 1,594 7,846 26,370 6,907 51,375
Jordan   Saudi Arabia   United Arab Emirates   Yemen Arab Republic   Other     Total Middle East.     FAR EAST   China(Mainland)	1,126 260 3,190 25,144 5,044 1,941 <b>39,502</b>	1,337 309 4,879 20,198 4,356 2,445 35,806	1,449 853 5,551 29,239 4,023 2,941 45,207	1,064 1,059 6,727 30,974 4,803 4,140 <b>50,525</b>	747 1,594 7,844 26,37( 6,387 6,907 <b>51,</b> 378
Jordan Saudi Arabia United Arab Emirates Yemen Arab Republic Other  Total Middle East FAR EAST China(Mainland) India	1,126 260 3,190 25,144 5,044 1,941 39,502 4,199 9,475	1,337 309 4,879 20,198 4,356 2,445 <b>35,806</b> 6,597 8,753	1,449 853 5,551 29,239 4,023 2,941 <b>45,207</b> 8,471 8,954	1,064 1,059 6,727 30,974 4,803 4,140 <b>50,525</b> 10,061 11,919	747 1,594 7,846 26,37( 6,387 6,907 <b>51,37</b> 5 9,998
Jordan Saudi Arabia United Arab Emirates Yemen Arab Republic Other Total Middle East	1,126 260 3,190 25,144 5,044 1,941 39,502 4,199 9,475 1,252	1,337 309 4,879 20,198 4,356 2,445 <b>35,806</b> 6,597 8,753 885	1,449 853 5,551 29,239 4,023 2,941 <b>45,207</b> 8,471 8,954 1,323	1,064 1,059 6,727 30,974 4,803 4,140 <b>50,525</b>	747 1,594 7,846 26,376 6,387 6,907 <b>51,375</b> 9,998 5,982 1,191
Jordan   Saudi Arabia   United Arab Emirates   Yemen Arab Republic   Other     Total Middle East.     FAR EAST   China(Mainland)   India   Indonesia   Japan	1,126 260 3,190 25,144 5,044 1,941 39,502 4,199 9,475 1,252 2,711	1,337 309 4,879 20,198 4,356 2,445 <b>35,806</b> 6,597 8,753 885 3,526	1,449 853 5,551 29,239 4,023 2,941 <b>45,207</b> 8,471 8,954 1,323 4,054	1,064 1,059 6,727 30,974 4,803 4,140 <b>50,525</b> 10,061 11,919 934 4,071	747 1,594 7,844 26,37( 6,387 6,907 <b>51,37</b> 5 <b>9,998</b> 5,982 1,191
Jordan Saudi Arabia United Arab Emirates Yemen Arab Republic Other  Total Middle East	1,126 260 3,190 25,144 5,044 1,941 39,502 4,199 9,475 1,252 2,711 1,077	1,337 309 4,879 20,198 4,356 2,445 <b>35,806</b> 6,597 8,753 885 3,526 2,532	1,449 853 5,551 29,239 4,023 2,941 <b>45,207</b> 8,471 8,954 1,323 4,054	1,064 1,059 6,727 30,974 4,803 4,140 <b>50,525</b> 10,061 11,919 934 4,071 1,869	747 1,594 7,844 26,370 6,387 6,907 <b>51,375</b> 9,998 5,982 1,191 4,505
Jordan   Saudi Arabia   United Arab Emirates   Yemen Arab Republic   Other	1,126 260 3,190 25,144 5,044 1,941 39,502 4,199 9,475 1,252 2,711 1,077 24,130	1,337 309 4,879 20,198 4,356 2,445 <b>35,806</b> 6,597 8,753 8,85 3,526 2,532 22,022	1,449 853 5,551 29,239 4,023 2,941 45,207 8,471 8,954 1,323 4,054 1,734 35,250	1,064 1,059 6,727 30,974 4,803 4,140 <b>50,525</b> 10,061 11,919 934 4,071 1,869 40,254	747 1,594 7,844 26,370 6,907 51,375 9,998 5,982 1,191 4,500 2,353 64,058
Jordan   Saudi Arabia   United Arab Emirates   Yemen Arab Republic   Other	1,126 260 3,190 25,144 5,044 1,941 39,502 4,199 9,475 1,252 2,711 1,077 24,130 1,679	1,337 309 4,879 20,198 4,356 2,445 35,806 6,597 8,753 885 3,526 2,532 22,022 1,169	1,449 853 5,551 29,239 4,023 2,941 45,207 8,471 8,954 1,323 4,054 1,734 35,250 1,404	1,064 1,059 6,727 30,974 4,803 4,140 50,525  10,061 11,919 934 4,071 1,869 40,254 357	747 1,594 7,844 26,376 6,907 51,375 9,998 5,982 1,191 4,503 2,353 64,058
Jordan Saudi Arabia United Arab Emirates Yemen Arab Republic Other  Total Middle East.  FAR EAST China(Mainland) India Indonesia Japan Korea Republic (South Korea) Pakistan Singapore	1,126 260 3,190 25,144 5,044 1,941 39,502 4,199 9,475 1,252 2,711 1,077 24,130 1,679 15,861	1,337 309 4,879 20,198 4,356 2,445 35,806  6,597 8,753 885 3,526 2,532 22,022 1,169 10,373	1,449 853 5,551 29,239 4,023 2,941 45,207 8,471 8,954 1,323 4,054 1,734 35,250 1,404 14,502	1,064 1,059 6,727 30,974 4,803 4,140 50,525 10,061 11,919 934 4,071 1,869 40,254 357	747 1,594 7,844 26,37( 6,387 6,907 51,375 9,998 5,982 1,191 4,505 2,355 64,058 375 3,147
Jordan Saudi Arabia United Arab Emirates Yemen Arab Republic Other  Total Middle East FAR EAST China(Mainland) India Indonesia Japan Korea Republic (South Korea) Pakistan Singapore Afghanistan	1,126 260 3,190 25,144 5,044 1,941 39,502 4,199 9,475 1,252 2,711 1,077 24,130 1,679	1,337 309 4,879 20,198 4,356 2,445 35,806 6,597 8,753 885 3,526 2,532 22,022 1,169	1,449 853 5,551 29,239 4,023 2,941 45,207 8,471 8,954 1,323 4,054 1,734 35,250 1,404	1,064 1,059 6,727 30,974 4,803 4,140 50,525  10,061 11,919 934 4,071 1,869 40,254 357	747 1,594 7,844 26,37( 6,387 6,907 51,375 9,998 5,982 1,191 4,503 2,353 64,058 3755 3,147 5,001
Jordan   Saudi Arabia   United Arab Emirates   Yemen Arab Republic   Other     Total Middle East.     FAR EAST   China(Mainland)   India   Indonesia   Japan   Korea Republic (South Korea)   Pakistan   Singapore   Afghanistan   Thailand     Thailand	1,126 260 3,190 25,144 5,044 1,941 39,502 4,199 9,475 1,252 2,711 1,077 24,130 1,679 15,861 1,620	1,337 309 4,879 20,198 4,356 2,445 35,806 6,597 8,753 885 3,526 2,532 22,022 1,169 10,373 1,657	1,449 853 5,551 29,239 4,023 2,941 45,207  8,471 8,954 1,323 4,054 1,734 35,250 1,404 14,502 2,071	1,064 1,059 6,727 30,974 4,803 4,140 50,525 10,061 11,919 934 4,071 1,869 40,254 357 10,686 1,727	747 1,594 7,844 26,376 6,387 6,907 <b>51,375</b> <b>9</b> ,998 5,982 1,191 4,503 2,353 64,058 375 3,147 5,000 14,477
Jordan   Saudi Arabia   United Arab Emirates   Yemen Arab Republic   Other	1,126 260 3,190 25,144 5,044 1,941 39,502 4,199 9,475 1,252 2,711 1,077 24,130 1,679 15,861 1,620 6,052	1,337 309 4,879 20,198 4,356 2,445 35,806 6,597 8,753 885 3,526 2,532 22,022 1,169 10,373 1,657 6,700	1,449 853 5,551 29,239 4,023 2,941 45,207  8,471 8,954 1,323 4,054 1,734 35,250 1,404 14,502 2,071 7,782	1,064 1,089 6,727 30,974 4,803 4,140 50,525 10,061 11,919 934 4,071 1,869 40,254 357 10,686 1,727 8,132	747 1,594 7,844 26,370 6,387 6,907 51,375 9,998 5,982 1,191 4,508 2,353 64,058 375 3,147 5,000 14,477
Jordan   Saudi Arabia   United Arab Emirates   Yemen Arab Republic   Other	1,126 260 3,190 25,144 5,044 1,941 39,502 4,199 9,475 1,252 2,711 1,077 24,130 1,679 15,861 1,620 6,052	1,337 309 4,879 20,198 4,356 2,445 35,806 6,597 8,753 885 3,526 2,532 22,022 1,169 10,373 1,657 6,700	1,449 853 5,551 29,239 4,023 2,941 45,207 8,471 8,954 1,734 35,250 1,404 14,502 2,071 7,782 85,545	1,064 1,059 6,727 30,974 4,803 4,140 50,525 10,061 11,919 934 4,071 1,869 40,254 357 10,686 1,727 8,132	747 1,594 7,844 26,370 6,387 6,907 51,375 9,998 5,982 1,191 4,508 2,353 64,058 375 3,147 5,000 14,477
Jordan   Saudi Arabia   United Arab Emirates   Yemen Arab Republic   Other	1,126 260 3,190 25,144 5,044 1,941 39,502 4,199 9,475 1,252 2,711 1,077 24,130 1,679 15,861 1,620 6,052	1,337 309 4,879 20,198 4,356 2,445 35,806 6,597 8,753 885 3,526 2,532 22,022 1,169 10,373 1,657 6,700	1,449 853 5,551 29,239 4,023 2,941 45,207 8,471 8,954 1,734 35,250 1,404 14,502 2,071 7,782 85,545	1,064 1,059 6,727 30,974 4,803 4,140 50,525 10,061 11,919 934 4,071 1,869 40,254 357 10,686 1,727 8,132	747 1,594 7,844 26,370 6,387 6,900 51,375 9,998 5,982 1,191 4,505 2,355 64,058 375 3,147 5,001 14,477 111,086 162,460
Jordan   Saudi Arabia   United Arab Emirates   Yemen Arab Republic   Other     Total Middle East.     FAR EAST   China(Mainland)   India   Indonesia   Japan   Korea Republic (South Korea)   Pakistan   Singapore   Afghanistan   Thailand   Other   Total Far East.     Total, ASIA   AUSTRALIA & OCEANIC	1,126 260 3,190 25,144 5,044 1,941 39,502 4,199 9,475 1,252 2,711 1,077 24,130 1,679 15,861 1,620 6,052 68,056	1,337 309 4,879 20,198 4,356 2,445 35,806  6,597 8,753 885 3,526 2,532 22,022 1,169 10,373 1,657 6,700 64,212 100,018	1,449 853 \$,551 29,239 4,023 2,941 45,207  8,471 8,954 1,323 4,054 1,734 35,250 1,404 14,502 2,071 7,782 85,545 130,752	1,064 1,059 6,727 30,974 4,803 4,140 50,525 10,061 11,919 934 4,071 1,869 40,254 357 10,686 1,727 8,132 90,011 140,536	747 1,594 7,844 26,370 6,388 6,907 51,375 9,998 5,982 1,191 4,508 2,353 64,058 378 3,147 5,001 14,477 111,086 162,460
Jordan   Saudi Arabia   United Arab Emirates   Yemen Arab Republic   Other	1,126 260 3,190 25,144 5,044 1,941 39,502 4,199 9,475 1,252 2,711 1,077 24,130 1,679 15,861 1,620 6,052 68,056 107,558	1,337 309 4,879 20,198 4,356 2,445 35,806  6,597 8,753 885 3,526 2,532 22,022 1,169 10,373 1,657 6,700 64,212 100,018	1,449 853 5,551 29,239 4,023 2,941 45,207  8,471 8,954 1,323 4,054 1,734 35,250 1,404 14,502 2,071 7,782 85,545 130,752	1,064 1,059 6,727 30,974 4,803 4,140 50,525  10,061 11,919 934 4,071 1,869 40,254 357 10,686 1,727 8,132 90,011 140,536	747 1,594 7,846 26,370 6,387 6,907 51,375 9,998 5,982 1,191 4,505 2,353 64,058 375 3,147 5,001 14,477 111,086 162,460 2,285 1,292
Jordan   Saudi Arabia   United Arab Emirates   Yemen Arab Republic   Other	1,126 260 3,190 25,144 5,044 1,941 39,502 4,199 9,475 1,252 2,711 1,077 24,130 1,679 15,861 1,620 6,052 68,056 107,558	1,337 309 4,879 20,198 4,356 2,445 35,806  6,597 8,753 885 3,526 2,532 22,022 1,169 10,373 1,657 6,700 64,212 100,018	1,449 853 5,551 29,239 4,023 2,941 45,207  8,471 8,954 1,323 4,054 1,734 35,250 1,404 14,502 2,071 7,782 85,545 130,752 2,313 1,089	1,064 1,089 6,727 30,974 4,803 4,140 50,525  10,061 11,919 934 4,071 1,869 40,254 357 10,686 1,727 8,132 90,011 140,536	747 1,594 7,844 26,376 6,387 6,907 51,375 9,998 5,982 1,191 4,503 2,353 64,058 375 3,147 5,001 14,477 111,086 162,460 2,288 1,292 3,577
Jordan   Saudi Arabia   United Arab Emirates   Yemen Arab Republic   Other     Total Middle East.   FAR EAST   China(Mainland)   India   Indonesia   Japan   Korea Republic (South Korea)   Pakistan   Singapore   Afghanistan   Thailand   Other   Total Far East.   TOTAL ASIA   AUSTRALIA & OCEANIC   Australia   Other   TOTAL Australia & Oceania   Total Far East.   TOTAL Australia & Oceania   TOTAL Australia & Oceania   TOTAL Australia & Oceania   Total Far East.   Total Far East.	1,126 260 3,190 25,144 5,044 1,941 39,502 4,199 9,475 1,252 2,711 1,077 24,130 1,679 15,861 1,620 6,052 68,056 107,558 2,663 195 2,858	1,337 309 4,879 20,198 4,356 2,445 35,806 6,597 8,753 885 3,526 2,532 22,022 1,169 10,373 1,657 6,700 64,212 100,018 3,029 436 3,465	1,449 853 5,551 29,239 4,023 2,941 45,207  8,471 8,954 1,323 4,054 1,734 35,250 1,404 14,502 2,071 7,782 85,545 130,752 2,313 1,089 3,402	1,064 1,059 6,727 30,974 4,803 4,140 50,525 10,061 11,919 934 4,071 1,869 40,254 357 10,686 1,727 8,132 90,011 140,536 2,203 3,920 6,123	747 1,594 7,846 26,370 6,387 6,907 51,375 9,998 5,982 1,191 4,508 2,353 64,058 375 3,147 5,001 14,477 111,086 162,460 2,288 1,292 3,577 1,213
Jordan   Saudi Arabia   United Arab Emirates   Yemen Arab Republic   Other	1,126 260 3,190 25,144 5,044 1,941 39,502 4,199 9,475 1,252 2,711 1,077 24,130 1,679 15,861 1,629 6,052 68,056 107,558 2,663 195 2,858 1,456	1,337 309 4,879 20,198 4,356 2,445 35,806 6,597 8,753 885 3,526 2,532 22,022 1,169 10,373 1,657 6,700 64,212 100,018 3,029 436 3,465 1,166	1,449 853 5,551 29,239 4,023 2,941 45,207 8,471 8,954 1,323 4,054 1,734 35,250 1,404 14,502 2,071 7,782 85,545 130,752 2,313 1,089 3,402 800	1,064 1,059 6,727 30,974 4,803 4,140 50,525 10,061 11,919 934 4,071 1,869 40,254 357 10,686 1,727 8,132 90,011 140,536 2,203 3,920 6,123 1,045	747 1,594 7,846 26,370 6,387 6,907 51,375 9,998 5,982 1,191 4,505 2,353 64,058 3757 3,147 5,001 14,477 111,086 162,460

6.27. Total expenditure on imports rose by 20.5 per cent in 2017 to KSh 1,725.6 billion as shown in Table 6.9. The value of imports from the Far East and Middle East Asia rose by 6.8 per cent and 50.7 per cent, respectively, in 2017. This resulted in a 15.8 per cent increase in the value of imports from Asia which amounted to KSh 1,107.6 billion during the review period. Consequently, the value of imports from Asia accounted for 64.2 per cent of total imports in 2017. Imports from China which have been growing steadily over time amounted to KSh 390.6 billion in 2017, representing an increase of 15.8 per cent. The value of imports from the United Arab Emirates (UAE) and Saudi Arabia also registered significant increase of 51.2 per cent and 65.5 per cent to KSh 138.4 billion and KSh 114.6 billion, respectively, in 2017. Other countries within Asia that registered increase in the value of imports included; Indonesia (25.3%), Pakistan (40.3%), Thailand (74.2%), Malaysia (45.0%) and South Korea (23.8%). On the contrary, value of imports from India which have been on a downward trend since 2014, declined to KSh 170.4 billion in 2017.

6.28. In 2017, the value imports from America nearly doubled in 2017, accounting for 7.5 per cent of total value of imports. Increase in import expenditure within the region were recorded for Brazil, Mexico and Argentina which jointly rose from KSh 7.5 billion in 2016 to KSh 58.5 billion in 2017. The increase in import expenditure from Brazil was on account of a substantial increase in sugar imports. Maize imports which accounted for 90.4 per cent of total imports from Mexico contributed to the surge in imports from the country in 2017.

6.29. The value of imports from the European Union (EU) continued to decline for the second consecutive year and amounted to KSh 206.5 billion in 2017. The value imports from the two leading source countries; Germany and the United Kingdom, jointly declined by 5.0 per cent to KSh 73.0 billion in 2017. A notable decline was also recorded in value of imports from Italy (5.7%), Spain (3.0%), Denmark (11.5%) and Ireland (53.1%). However, the situation was different for France, Netherlands and Belgium which recorded an increase in the value of imports during the review period, from a combined expenditure of KSh 51.5 billion in 2016 to KSh 61.7 billion in 2017.

Table 6.9: Values of Imports by Origin, 2013-2017

					KSh Million
DESCRIPTION EUROPE	2013	2014	2015	2016	2017*
WESTERN EUROPE					
European Union					
Belgium	13,059	13,159	14,966	13,496	15,364
Finland	3,665	3,840	5,415	3,339	2,123
France	20,666	22,447	21,066	21,534	26,835
Germany	37,488	47,409	47,381	43,353	42,989
Italy	20,324	19,946	22,722	23,738	22,388
Netherlands Spain	24,788	18,792 12,516	20,527 11,376	16,510	19,539
Spain Sweden	8,365 7,091	6,233	6,364	11,023 5,844	10,696 6,256
United Kingdom	49,020	47,037	42,970	33,487	30,050
Denmark	4,633	4,223	4,097	4,252	3,764
Ireland	4,383	5,689	7,525	6,949	3,256
Czech Republic	2,073	1,959	1,929	3,300	4,443
Austria	1,843	2,635	2,680	2,707	2,344
Poland	2,290	4,720	8,643	6,020	6,354
Hungary	1,627	1,449	2,565	2,494	1,253
Other Total	6,313 <b>207,628</b>	13,363 <b>225,416</b>	12,494 <b>232,720</b>	14,519 <b>212,567</b>	8,881 <b>206,534</b>
Other Western Europe	23,969	20,235	27,112	23,836	29,696
Total Western Europe	231,597	245,651	259,832	236,402	236,230
EASTERNEUROPE	2	, . <u></u>	,	,	,
Russian Federation	23,182	23,118	28,583	24,260	36,179
Ukraine	13,708	15,008	6,118	3,819	9,517
Other	2,148	2,168	1,059	842	789
Total ELIPOPE	39,039	40,294	35,759	28,921	46,485
TOTAL, EUROPE AMERICA	270,635	285,945	295,592	265,324	282,715
United States of America	57,412	168,720	126,041	47,819	57,377
Canada	6,525	7,886	7,754	7,807	9,902
Brazil	15,603	6,094	6,968	4,370	27,819
Mexico	1,650	1,576	2,377	2,308	21,140
Argentina	1,152	1,960	1,545	852	9,536
Other	2,134	1,239	1,371	2,035	2,772
TOTALAMERICA	84,477	187,476	146,056	65,190	128,547
AFRICA South Africa	70 724	62 902	61 211	49,857	61,880
Tanzania	70,724 11,666	63,893 18,364	61,311 16,906	12,806	17,180
Uganda	16,086	17,549	22,284	19,276	42,041
Swaziland	5,436	5,594	7,162	6,398	11,231
Mauritius	2,011	2,794	2,713	5,174	7,318
Rwanda	1,006	716	790	775	1,684
Zambia	2,894	4,380	3,895	4,201	7,739
Other <sup>1</sup>	38,016	32,851	34,037	41,755	51,472
TOTAL AFRICA ASIA	147,839	146,141	149,097	140,241	200,544
MIDDLE EAST					
Iran	2,434	3,788	3,808	6,134	13,169
Israel	9,437	5,659	10,410	5,027	6,293
Jordan	799	789	945	806	3,198
Saudi Arabia	41,423	56,565	55,306	69,259	114,607
United Arab Emirates	117,360	103,255	90,573	91,482	138,359
Bahrain	34,977	41,367	5,759	8,095	8,845
Oman Other	3,819 9,631	10,518 6,028	5,942 5,775	5,697 8,186	5,107 3,823
Total Middle East	219,880	227,969	5,775 <b>178,517</b>	194,687	293,400
FAREAST	217,000	227,709	1/0,31/	17-1,00/	270,700
China	182,356	248,648	320,816	337,450	390,622
India	258,230	264,536	252,523	205,499	170,410
Indonesia	45,041	48,598	45,939	45,372	56,862
Japan	83,720	86,554	88,239	82,410	81,663
Korea South	24,471	29,105	18,822	14,211	17,595
Pakistan	15,647	18,020	18,347	18,175	25,497
Singapore Taiwan	19,437 12,304	14,624 15,541	9,612 12,391	6,795 12,296	5,829 11,814
Malaysia	9,349	13,341	12,391	12,290	17,868
Thailand	12,673	12,527	12,913	12,059	21,007
Other	13,593	12,984	12,976	15,406	15,016
Total Far East	676,820	762,204	803,133	761,993	814,182
TOTAL, ASIA	896,700	990,173	981,650	956,680	1,107,583
AUSTRALIA & OCEANIA				2.075	
Australia	12,422	7,069	4,032 787	2,878	4,934
TOTAL AUSTRALIA & OCEANIA	618 <b>13,040</b>	7, <b>500</b>	787 <b>4,820</b>	1,190 <b>4,068</b>	1,093 <b>6,027</b>
All Other Countries N.E.S.	624	1,086	342	250	206
Total All Other Counties n.e.s	624	1,086	342	250	206
GRAND TOTAL	1,413,316	1,618,321	1,577,557	1,431,753	1,725,622
Source: Kenya National Bureau of Statistics/ Ker					· · · · · ·

Source: Kenya National Bureau of Statistics/ Kenya Revenue Authority

<sup>\*</sup>Provisional

<sup>&</sup>lt;sup>1</sup>See table 7.10 for details

6.30. As presented in Table 6.10, the value of imports from Africa accounted for 11.6 per cent of the total import bill in 2017 at KSh 200.5 billion, representing 43.0 per cent increase. Imports from Common Market for Eastern and Southern Africa (COMESA) accounted for 57.5 per cent of total value of imports from Africa in 2017. Uganda and Egypt were the dominant sources of imports with a combined value of KSh 77.4 billion. Imports from Uganda more than doubled from KSh 19.3 billion in 2016 to KSh 42.0 billion in 2017 on account of increased imports of; milk and milk products (excluding butter and cheese), beans, animal feeds, maize, and other unmilled cereals (excluding wheat and rice). The value of imports of these commodities accounted for 66.2 per cent of the total imports from Uganda in 2017. The increase in imports from Egypt was partly attributable to increase in the value of imports of soap and other cleansing preparations; paintings and drawings; paper and paperboard; and computer monitors and projectors. Imports of sorghum from Sudan caused the significant increase in imports from this origin in 2017.

6.31. Imports from South Africa rose from KSh 49.9 billion in 2016 to KSh 61.9 billion in 2017, largely driven by an increase in the value of imported maize; iron and steel; road motor vehicles; and coal. The value of maize imports from South Africa was KSh 7.7 billion and accounted for 19.1 per cent of the total import expenditure, in 2017.

6.32. Total exports to Africa continued on a downward trend for the second year to KSh 223.9 billion in 2017, with a share of 37.7 per cent of the total export earnings during the year. The trend in total exports to Africa was consistent with the performance of total exports to the COMESA region which declined by 2.2 per cent to KSh 166.4 billion in 2017. The value of total exports to COMESA accounted for 74.3 per cent of the value of total exports to Africa. Destinations that recorded reduced earnings from exports within the region included; Egypt (7.8%), Democratic Republic of Congo (5.8%), Ethiopia (13.3%), Zambia (25.2%), Djibouti (40.9%) and the Comoros (50.4%). The decline in the value of domestic exports of key commodities to Egypt such as tea; tobacco and tobacco manufactures; and paper and paperboard, resulted to the decrease in the value of export earnings from this destination in 2017. Similarly, the value of domestic exports of assorted commodities including; insecticides, rubber tyres, sugar confectionery, prefabricated buildings, stoppers, caps and lids of containers drove the decline in earnings from exports to Ethiopia.

6.33. Total export earnings from the EAC decreased by 5.6 per cent in 2017 to KSh 114.8 billion. This was partly as a result of reduction in the value of total exports to Uganda from KSh 62.2 billion to KSh 61.8 billion, Tanzania from KSh 34.8 billion to KSh 28.5 billion and Rwanda from KSh 17.5 billion to KSh 17.1 billion in 2017. Earnings from domestic exports of cement to Uganda fell by a further 21.7 per cent in 2017. Other commodity exports to Uganda that showed decline in earnings during the year included: alcohols; phenols and their derivatives (81.7%); salt (10.2%); medicinal and pharmaceutical products (26.6%); and products of iron and steel (13.4%).

Table 6.10: Trade with African Countries, 2013-2017

ZOINES/ COON I MES		T	TOTAL EXPORTS	S				IMPORTS		
	2013	2014	2015	2016	2017*	2013	2014	2015	2016	2017*
EASTAFRICAN										
COMMUNITY (EAC)										
Tanzania	40,496,493	42,724,911	33,663,396	34,796,571	28,521,064	11,666,407	18,364,083	16,906,157	12,806,098	17,179,556
Uganda	65,361,907	60,782,664	68,573,904	62,163,383	61,814,032	16,085,806	17,549,421	22,283,692	19,275,753	42,041,347
Rwan da	13,499,695	14,440,844	17,949,831	17,499,630	17,124,028	1,005,755	715,591	789,704	774,593	1,683,596
Burundi	5,598,956	7,849,463	6,594,983	7,242,223	7,381,994	52,577	29,446	223,663	68,353	59,481
Total, EAC1	124,957,051	125,797,882	126,782,115	121,701,806	114,841,119	28,810,546	36,658,542	40,203,215	32,924,797	60,963,980
COMESA <sup>2</sup>										
Comoros	880,126	478,664	1,103,877	1,127,582	559,762	63	1	8	1,247	788
Congo, D.R	18,436,875	21,052,099	20,673,353	20,035,483	18,879,330	561,648	259,805	127,763	208,300	504,619
Djibouti	1,227,723	1,011,457	1,110,081	1,318,178	779,675	2,020	3,486	15,328	3,010	47,184
Egypt	17,001,458	17,509,233	20,166,293	20,618,514	19,005,228	25,602,868	25,532,067	25,816,669	30,042,739	35,382,586
Eritrea	306,469	396,846	449,632	117,935	175,703	4,578	19	89	,	3,035
Ethiopia	4,885,115	6,918,973	7,154,246	8,052,619	6,982,230	278,631	424,764	501,056	531,602	2,106,353
Libya	112,165	128,998	131,594	126,330	47,493	6,472	8,591	181,901	,	٠
Madagascar	312,625	429,997	449,833	205,535	328,854	790,495	590,369	2,433,745	801,749	1,644,846
Malawi	3,497,283	3,326,340	3,047,465	2,791,807	2,972,319	1,041,386	302,633	249,795	377,281	402,119
Mauritius	956,755	1,060,761	1,083,200	666'926	1,111,361	2,011,224	2,793,710	2,713,035	5,173,580	7,317,990
Seychelles	379,669	177,399	321,581	161,718	174,562	290,695	470,097	64,171	236	•
Sudan	6,424,532	6,241,153	5,966,860	5,360,749	6,906,507	1,359,591	1,327	454,834	479,445	2,186,197
South Sudan	16,680,368	19,822,572	17,065,487	16,326,135	16,752,051	21,304	1,210,699	8,709	6,200	25,204
Swaziland	11,741	17,929	103,827	24,154	56,433	5,436,480	5,594,274	7,161,711	6,397,800	11,230,575
Zambia	6,287,696	6,667,898	5,909,279	5,171,559	3,868,968	2,893,584	4,380,297	3,894,811	4,200,643	7,739,372
Zimbabwe	1,809,563	1,663,268	1,217,307	914,062	1,506,220	819,548	494,674	224,209	1,256,194	2,946,018
Sub-Total, COMESA	79,210,163	86,903,585	85,953,916	83,329,358	80,106,696	41,120,587	42,066,812	43,847,812	49,480,027	71,536,888
Total, COMESA	163,670,721	169,976,556	179,072,634	170,234,594	166,426,751	58,264,726	60,361,271	67,144,871	69,598,727	115,321,312
OTHERCOUNTRIES										
Algeria	545,188	108,318	361,859	122,583	30,196	13,650	857,743	480,667	300,993	8,679
Angola	178,648	108,415	102,377	74,733	39,138	132,449	116,955	24,676	29,990	161,828
Ghana	631,527	478,990	490,556	534,359	542,357	254,505	368,916	121,385	205,283	202,174
Nigeria	2,350,105	2,429,578	3,659,278	2,559,422	2,649,019	1,596,189	698,214	205,491	459,985	425,429
Lesotho	33,351	47,556	61,418	28,801	325,832	79,011	10,165	2,191	1,829	1,173
Mozambique	1,407,050	1,809,120	1,292,855	2,358,730	1,215,776	1,833,139	734,959	1,412,850	2,363,997	3,173,284
Reunion	126,331	127,782	127,091	160,438	149,490	965'9	2,516	3,561	1,561	1
Somalia	16,940,454	13,201,901	15,209,983	17,931,907	19,661,489	293,755	150,268	28,698	52,823	94,168
South Africa	3,276,892	5,936,345	4,338,440	4,149,033	2,758,621	70,724,146	63,893,353	61,311,246	49,857,194	61,879,611
All Other African Countr	1,817,737	4,413,643	3,806,935	1,721,975	1,545,464	2,974,601	582,942	1,136,711	4,532,170	2,096,910.29
Sub-Total	27,307,284	28,661,648	29,450,792	29,641,979	28,917,383	77,908,040	67,416,032	65,045,898	57,835,825	68,043,257
TOTAL AFRICA	231,474,498	241,363,115	242,186,823	234,673,144	223,865,198	147,839,173	146,141,386	149,096,925	140,240,649	200,544,125
1, 111,										

Source: Kenya National Bureau of Statistics/Kenya Revenue Authority
\* Provisional
'Does not in dude South Sudan
<sup>2</sup>EAC Partner States are also members of COMESA except Tanzania

Balance of 6.34. Table 6.11 presents Balance of Payments statistics that summarises the country's cross Payments border transactions from 2013 to 2017. During the review period, the overall Balance of Payments worsened to a deficit of KSh 16.9 billion from a surplus of KSh 13.1 billion in 2016. The current account balance widened by 38.3 per cent to a deficit of KSh 518.9 billion in 2017 from a deficit of KSh 375.3 billion in 2016. This was mainly driven by the widening of merchandise trade deficit that grew by 35.6 per cent in the review period. Exports of goods went up by 2.7 per cent to KSh 599.0 billion in 2017 while imports of goods valued on free on board basis increased by 21.5 per cent to KSh 1,653.9 billion in the same period. The significant growth in the value of imports was mainly as a result of increased imports of food and petroleum products. The current account balance was 6.7 per cent of the GDP in 2017.

> 6.35. Net international services increased by 11.4 per cent from a surplus of KSh 144.4 billion in 2016 to a surplus of KSh 160.9 billion in 2017. Receipts from international services increased by 14.0 per cent while payments for international services rendered grew by 15.3 per cent in 2017. Receipts from international travel partly contributed to the increase in services inflows. Diaspora remittances remained buoyant, increasing by 14.6 per cent, and contributed to increased secondary income net inflows from a surplus of KSh 327.8 billion in 2016 to a surplus of KSh 460.0 billion in 2017.

> 6.36. Total net financial inflows increased by 13.4 per cent from a surplus KSh 420.0 billion in 2016 to a surplus of KSh 476.1 billion in 2017. Other investment which include loan disbursements net inflows increased by 18.0 per cent to a surplus of KSh 513.4 billion in 2017 compared to an increase of 20.2 per cent in 2016. Similarly, net foreign direct investment inflows increased by 79.2 per cent from a surplus KSh 23.9 billion in 2016 to a surplus of KSh 42.9 billion in the review period.

Table 6.11: Balance of Payments, 2013-2017

KSh Million 2013 2014 2015 2016 2017\* A. Current Account . -518,943.6 -417,019.6 -560,761.1 -421.082.1 -375,295.9 587,330.0 Goods: exports f.o.b. 598,967.1 503,491.1 546,781.5 583,378.1 Goods: imports f.o.b. 1,385,669.8 1,488,446.8 1,409,606.4 1,361,483.4 1,653,935.8 441,986.5 441,739.9 480,622.1 Services: credit 455,369.8 421,731.9 of which Travel... 75,843.8 71,277.6 71,081.1 83,614.2 94,705.3 Services: debit. 190,061.0 294,498.4 326,014.9 277,354.2 319,742.2 Balance on goods and services. -630,253.1 -794,423.8 -692,921.5 -633,727.7 -894,088.8 Primary income: credit. 28,712.4 43,643.4 48,298.1 43,991.1 41,208.1 Primary income: debit. 80,383.9 119,981.0 115,459.3 113,406.5 126,038.2 Balance on goods, services, and primary income. -681,924.6 -870,761.4 -760,082.7 -703,143.0 -978,918.9 Secondary income1: credit. 268,925.2 327,853.4 345,217.9 333,039.1 465,762.6 of which Diaspora Remittances.... 112,328.1 126,682.3 154,068.3 177,088.5 202,918.7 Secondary income1: debit. 4,020.2 17,853.1 6,217.3 5,191.9 5,787.4 B. Capital Account .. 13,644.0 24,204.0 25,718.0 20,878.0 19,046.0 13,644.0 24,204.0 25,718.0 20,878.0 19,046.0 Capital account: credit. Capital account: debit. -448,096.6 -650,365.7 -383,721.0 -419,998.1 -476,118.7 C. Financial Account .. 17,105.0 6,604.6 23,758.5 16,008.5 26,585.8 Direct investment: assets. 96,356.4 72,178.6 60.843.6 39,927.7 69,439.2 Direct investment: liabilities .. 3,285.4 4,869.6 18,722.0 42,939.3 68,791.9 Portfolio investment: assets.. 1,016.3 310.0 996.0 41,283.6 68,077.3 Equity and investment fund shares. 17,726.0 2,269.1 4,559.6 1,655.7 714.6 Debt securities. 3,499.1 26,581.6 331,663.4 4,050.4 -11,358.2 Portfolio investment: liabilities .. 25,563.0 83,907.5 1,061.1 2,295.6 -11,583.0 Equity and investment fund shares. 1,018.6 247,755.9 2,438.0 1,754.9 224.8 Debt securities. Financial derivatives: net. 56,268.7 -505.0 49,206.0 -19,542.1 35,489.4 Other investment: assets. Other equity. 56,268.7 -505.0 49,206.0 -19,542.1 35,489.4 Other debt instruments. Central bank. Deposit-taking corporations, except the central bank 30,938.5 40,048.0 -7,067.2 40,885.7 -24,812.7 General government. 16,220.7 6,562.2 8,320.3 5,270.7 4,550.9 Other sectors. Other financial corporations. 16,220.7 8,320.3 5,270.7 4,550.9 6.562.2 Nonfinancial corporations, households .. 401,817.7 257,492.8 411,064.8 415,425.6 548,904.7 Other investment: liabilities .. -1,380.1 1,859.1 -274.6 -827.4 -744.6 Other equity. Special Drawing Rights. 258,872.9 399,958.6 411,339.4 416,253.0 549,649.3 Other debt instruments. 6,910.7 -217.0 1,521.2 -1,433.9 -3,646.0 Central bank. 44,300.8 51,500.4 Deposit-taking corporations, except the central bank.. 47,241.8 -28,732.8 -7,402.2 71,353.7 -21,877.9 202,052.1 200,165.0 297,287.9 General government. 285,738.1 222,339.8 162,262.4 248,466.8 258,242.4 Other sectors. Other financial corporations. 285,738.1 222,339.8 162,262.4 248,466.8 258,242.4 Nonfinancial corporations, households.... -12,955.5 14,033.7 -13,262.0 -52,484.1 6,858.8 D. Net Errors and Omissions. E. Overall Balance. -31,765.5 -127,842.3 24,905.1 -13,096.1 16,920.1 F. Reserves and Related Items. 31,765.5 127,842.3 -24,905.1 13,096.1 -16,920.1 73,921.9 117,353.1 -35,386.7 3,894.7 -24,917.9 Reserve assets. 15,252.4 -10,489.1 -10,481.6 -9,201.4 -7,997.8 Credit and loans from the IMF. 26,904.0 Exceptional financing. -8.8 -10.4 -6.7 -6.7 -5.2 Current Account balance as % of GDP

f.o.b is free on board

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup> Includes current transfers

<sup>&</sup>lt;sup>-</sup>Data not available

International 6.37. Foreign reserves held by the Central Monetary Authorities from 2013 to 2017 are **Liquidity** presented in Table 6.12. Gross stock of official foreign reserves grew marginally to KSh 738.8 billion as at December 2017 compared to KSh 736.5 billion in the corresponding period of 2016. Net foreign assets of CBK increased from KSh 643.1 billion as at December 2016 to KSh 649.6 billion as at December 2017. Foreign liabilities, comprising external banks' deposits and use of fund credit, which may directly affect the stock of foreign reserves reduced, by 4.7 per cent in the review period.

Table 6.12: Central Monetary Authorities: Foreign Exchange reserves, 2013-2017

KSh Million

	Official Foreign Assets and Liabilities										
		Ce	ntral Bank	Of Kenya			Governm	ent	Gross Foreign		
As at end of	S.D.R.'s	Foreign Exchange (cash + gold)	External Banks' Deposits	Use of Fund Credit	Net Foreign Assets of Central Bank	Reserve Position in IMF	Other Holding s	Reserves of Government	Reserves <sup>1</sup> of Central Monetary Authorities		
2013	1,369	532,041	10,377	92,333	430,700	1,765	127	1,892	535,302		
2014	1,179	701,390	10,602	86,159	605,808	1,743	118	1,861	704,430		
2015	1,489	739,257	17,876	86,288	636,583	1,936	134	2,070	742,816		
2016											
January	2,049	734,346	17,701	86,012	632,682	1,875	122	1,997	738,392		
February	2,024	744,106	18,953	85,581	641,596	1,865	118	1,983	748,114		
March	1,958	769,025	20,959	86,961	663,063	1,896	121	2,017	773,000		
April	1,429	785,325	12,895	86,828	687,031	1,904	123	2,027	788,781		
May	3,853	779,935	10,654	85,492	687,643	1,875	123	1,998	785,786		
June	1,923	814,419	14,169	83,172	719,001	1,878	114	1,992	818,334		
July	1,914	801,097	14,782	83,085	705,144	1,876	111	1,987	804,998		
August	4,044	790,845	15,652	83,109	696,127	1,876	111	1,987	796,876		
September	4,028	796,847	14,623	82,203	704,048	1,877	110	1,987	802,862		
October	3,438	784,913	12,027	80,548	695,776	1,851	103	1,954	790,305		
November	2,886	757,420	16,439	79,182	664,685	1,831	106	1,937	762,243		
December	3,747	730,784	14,210	77,196	643,125	1,843	104	1,947	736,479		
2017											
January	2,322	745,918	19,608	78,567	650,065	1,890	93	1,983	750,223		
February	1,374	740,303	17,759	76,912	647,007	1,872	107	1,979	743,657		
March	1,199	819,596	23,116	76,826	720,852	1,870	107	1,978	822,772		
April	680	876,944	19,930	77,264	780,430	1,894	111	2,005	879,629		
May	118	870,437	16,759	77,389	776,406	1,910	111	2,021	872,576		
June	1,877	851,017	18,743	74,916	759,235	1,930	112	2,043	854,937		
July	1,267	822,485	23,325	75,232	725,196	1,955	114	2,068	825,821		
August	265	787,525	15,797	74,397	697,595	1,958	103	2,060	789,850		
September	253	806,078	21,207	74,210	710,914	1,953	116	2,068	808,399		
October	3,932	755,523	20,069	72,972	666,414	1,948	114	2,062	761,517		
November	3,352	742,944	17,586	72,731	655,979	1,956	115	2,071	748,367		
December	1,487	735,262	17,301	69,816	649,632	1,975	116	2,090	738,839		

Source: Central Bank of Kenva

### **Foreign Exchange Rates**

6.38. The Kenya Shilling remained resilient against the currencies of major trading partners in 2017. The overall Trade Weighted Index reduced by 1.5 per cent to 116.5 in 2017 from 114.8 in 2016, as presented in Table 6.13. This was mainly due to weakening slightly of the Kenya Shilling against currencies of Kenya's key trading partners during the period under review. The Kenya Shilling depreciated against the US Dollar, Chinese Yuan and Euro by 1.9, 3.9 and 0.1 per cent, respectively, in 2017. Other currencies which gained against the Kenya Shilling during the review period were Indian Rupee, SA Rand, UAE Dirham and Saudi Riyal. However, the Kenya Shilling gained against the Sterling Pound and Japanese Yen by 3.2 per cent and 1.4

Reserves constitute foreign assets which are readily available for meeting external financial needs Gross Foreign Reserves of Central Monetary Authorities comprise: S.D.Rs; Cash and Gold Foreign Exchange of Central Bank Plus Reserves of Government

per cent, respectively, in 2017. The Kenya Shilling strengthened against the Rwandese Francs, Ugandan Shilling and Tanzanian Shilling by 7.7, 3.7 and 0.4 per cent during the review period.

Table 6.13: Average Foreign Exchange Rates of Kenya Shilling for Selected Currencies, 2013-2017

	2013	2014	2015	2016	2017
1 Euro <sup>1</sup>	114.41	116.84	108.96	112.33	116.73
1 US Dollar	86.12	87.92	98.18	101.50	103.41
1 Pound Sterling	134.75	144.88	150.17	137.66	133.20
1 UAE Dirham	23.45	23.94	26.73	27.64	28.15
1 Indian Rupee	1.48	1.44	1.53	1.51	1.59
1 Chinese Yuan	14.01	14.27	15.62	15.29	15.30
1 SA Rand	8.95	8.10	7.72	6.93	7.77
100 Japan ese Yen	88.43	83.26	81.12	93.55	92.22
1 Saudi Riyal	22.97	23.44	26.17	27.06	27.57
1 Egyptian Pound <sup>2</sup>	12.53	12.41	12.77	10.14	5.80
TSh/KSh <sup>3</sup>	18.79	18.93	20.73	21.54	21.63
1 Pakistan Rupee <sup>2</sup>	0.85	0.87	0.96	0.98	0.98
1 Swedish Kroner	13.22	12.88	11.65	11.87	12.12
1 Swiss Franc	92.96	96.18	102.04	103.04	105.04
USh/KSh <sup>3</sup>	30.06	29.55	32.94	33.68	34.92
1 Congolese Franc	0.09	0.10	0.11	0.11	0.07
100 Rwanda Francs <sup>2</sup>	7.55	7.79	7.09	7.53	8.11
Overall Trade Weighted Index 2009=100	107.12	108.10	114.30	114.83	116.52

Source: Central Bank of Kenya

**Developments** 6.39. During the review period, the Government launched a National Trade Policy, aimed in the External at spurring economic growth. The policy targets to enhance export growth through value Sector addition in export oriented manufactures and in the services sector, as well as pursuing diversification to fully exploit the export opportunities in the emerging markets. Consequently, a Trade Remedies Bill was developed and approved by Parliament, and assented into law, by the President. The implementation of the law will address unfair trade practices from imports which adversely affects the Country's domestic industries, and widens the trade deficit.

> 6.40. In 2017, Trade Remedies Law was passed by parliament and assented to by the President. The Law aims protecting domestic producers from unfair trade practices such as dumping and subsidization, thereby making them more competitive. In addition, a Trade Remedy Agency is expected to be established within the state Department for Trade to undertake investigations and recommend remedial measures including imposition of extra duties and quotas.

> 6.41. In 2017, Kenya's exports to the USA increased, particularly, articles of apparel and clothing accessories, which remain the leading export products to the USA. This was largely on account of the African Growth and Opportunity Act, 2000 (AGOA). The main objectives of AGOA are to stimulate economic growth, encourage economic integration and facilitate Sub-Saharan African (SSA) integration into the global economy. The Act, through legislative amendments has been further extended by 10 years to 2025.

 $<sup>^1</sup>$ Countries in the Euro area included in the computation of Trade Weighted Fisher's Ideal Index are:

Germany, France, Switzerland, Netherlands, Belgium and Italy.

<sup>&</sup>lt;sup>2</sup>Via US \$ Exchange Rates (DR Congo, Egypt, Pakistan, and Rwanda)

<sup>&</sup>lt;sup>3</sup>Calculated as Uganda/Tanzania shilling to Kenya Shilling

### **Agriculture Sector Review**



### **Overview**

eal Gross Value Added in the agricultural sector grew at a decelerated rate of 1.6 per cent from KSh 879.6 billion in 2016 to KSh 893.3 billion in 2017. This was occasioned by drought, pests and disease incidence which resulted in reduced crop and livestock production. Maize production declined from 37.8 million bags in 2016 to 35.4 million bags in 2017. Tea and coffee production decreased by 7.0 per cent and 11.5 per cent to 439.8 thousand tonnes and 40.8 thousand tonnes, respectively in 2017. A reduction in cane production resulted in sugarcane deliveries to factories reducing drastically from 7.2 million tonnes in 2016 to 4.8 million tonnes in 2017. The volume of horticultural exports increased by 16.4 per cent from 261.2 thousand tonnes in 2016 to 304.1 thousand tonnes in 2017. The volume of marketed milk decreased by 17.4 per cent from 648.2 million litres in 2016 to 535.7 million litres in 2017.

7.2 The dry weather conditions led to a decline in production of most agricultural commodities during the year. Overall, marketed agricultural production registered a decelerated growth of 8.1 per cent in 2017, from the 10.8 per cent growth reported in 2016. Earnings from horticulture exports rose by 13.6 per cent during the review period to KSh 115.3 billion in 2017. The value of marketed tea increased by 15.7 per cent from KSh 116.5 billion in 2016 to KSh 134.8 billion in 2017. The increase is attributed to the effect of favourable market prices for the crop. Earnings from marketed maize increased by 7.6 per cent from KSh 7.9 billion in 2016 to KSh 8.5 billion in 2017. Earnings from marketed wheat reduced by 33.8 per cent from KSh 8.0 billion in 2016 to KSh 5.3 billion in 2017. The value of marketed coffee decreased marginally from KSh 16.2 billion in 2016 to KSh 16.0 billion in 2017. The value of marketed milk declined by 8.7 per cent from KSh 22.9 billion in 2016 to KSh 20.9 billion in 2017.

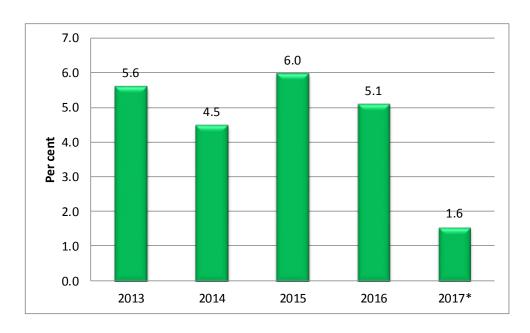
Agricultural Table 7.1 and Figure 7.1 show agriculture output, intermediate consumption and value added Output and at current and constant prices from 2013 to 2017. Output and intermediate consumption at **Input** current prices increased by 6.5 per cent and 13.1 per cent, to KSh 2,695.2 billion and KSh 389.0 billion, respectively in 2017. Value added at current prices increased by 5.5 per cent from KSh 2,185.7 billion in 2016 to KSh 2,306.2 billion in 2017. Output and intermediate consumption at constant prices increased by 2.2 per cent and 4.8 per cent to KSh 1,123.2 billion and KSh 230.0 billion, respectively in 2017. Value added at constant prices increased by 1.6 per cent from KSh 879.6 billion in 2015 to KSh 893.3 billion in 2017.

Table 7.1: Agricultural Output and Input<sup>1</sup>, 2013 - 2017

					KSh Million
	2013*	2014*	2015*	2016+	2017*
PRODUCTION AT CURRENT PRICES					
Output at basic prices	1,389,005	1,639,767	2,083,490	2,529,583	2,695,208
Intermediate consumption	235,791	267,570	306,140	343,837	388,995
Value added at basic prices, gross	1,153,215	1,372,197	1,777,350	2,185,746	2,306,213
PRODUCTION CONSTANT PRICES					
Output	936,891	983,330	1,045,269	1,098,986	1,123,247
Intermediate consumption	181,027	193,542	208,362	219,428	229,985
Gross Value Added	755,864	789,788	836,907	879,558	893,262

Source: Kenya National Bureau of Statistics

Figure 7.1: Growth Rate in Real Agricultural Gross Value Added, 2013 - 2017



## Marketed Production

7.4 Overall marketed production increased by 8.2 per cent from KSh 413.2 billion in 2016 to KSh 446.9 billion in 2017 with marketed crops accounting for 69.7 per cent of the overall marketed agricultural production as shown in Table 7.2. Although there was low volume and uneven distribution of rainfall during the year 2017, aggregate earnings from agricultural production increased.

7.5 The value of horticulture exports increased by 13.6 per cent from KSh 101.5 billion in 2016 to KSh 115.3 billion in 2017. Cut flowers accounted for 71.3 per cent of the value of horticulture exports. Earnings from marketed maize increased from KSh 7.9 billion in 2016 to KSh 8.5 billion in 2017. Similarly, the value of marketed tea increased by 15.7 per cent from KSh 116.5 billion in 2016 to KSh 134.8 billion in 2017. Despite the decreased volumes of marketed maize and tea, the higher prices offered more than offset the effect of lower volumes marketed. A drastic reduction in sugarcane production resulted in a 16.9 per cent decline in the value of marketed sugarcane from KSh 24.2 billion in 2016 to KSh 20.1 billion in 2017. In addition, the value of marketed coffee decreased marginally from KSh 16.2 billion in 2016 to KSh 16.0 billion in 2017. Improved prices offered for sugarcane and coffee could not offset the dampening effect of the reduced marketed volumes for the crops during the review period. The value of marketed wheat declined from KSh 8.0 billion in 2016 to KSh 5.3 billion in 2017.

<sup>\*</sup> Provisional

<sup>\*</sup>Revised

<sup>&</sup>lt;sup>1</sup>Excludes Forestry and Fishing

Table 7.2: Recorded Marketed Agricultural Production at Current Prices, 2013-2017

KSh Million 2013 2014 2015 2016 2017\* CEREALS-Maize .. .. ... ... 10,121.1 9,604.4 8,506.0 7,891.2 8,478.7 Wheat .. .. ........ 6,926.1 7,618.0 8,198.2 8,028.1 5,283.1 Others .. .. ....... 7,555.3 7,720.8 7,488.5 7,266.2 5,965.1 Total .. ...... 24,602.6 24,943.2 24,192.7 23,185.4 19,726.9 HORTICULTURE1-Cut flowers .. .. ... 55,975.7 59,893.1 62,937.5 70,829.5 82,248.9 Vegetables .. .. ...... 22,923.3 18,780.6 20,939.5 23,366.8 24,064.6 Fruits .. .. ........ 4,482.5 5,410.6 6,561.8 7,317.3 9,009.3 Total .. ...... 83,381.5 84,084.3 90,438.8 101,513.5 115,322.8 TEMPORARY INDUSTRIAL CROPS-Sugar-cane .. ...... 24,583.4 20,294.5 22,397.1 24,221.3 20,133.8 Pyrethrum .. .. ... 52.6 51.0 37.9 26.5 61.1 Others .. .. ....... 952.7 1,438.9 1,516.8 1,470.4 1,689.7 Total .. ..... 25,588.7 21,794.5 23,964.9 25,729.6 21,850.0 PERMANENT CROPS-Coffee .. .. ........ 10,910.2 16,634.4 12,074.7 16,192.3 16,037.1 Tea ............. 94,722.0 84,854.6 118,391.2 116,547.3 134,826.0 Sisal .. .. ....... 2,810.8 2,944.8 3,595.0 4,729.6 3,557.8 Total .. ....... 108,443.0 104,433.7 134,060.8 137,469.1 154,420.9 TOTAL CROPS.. 242,015.7 235,255.7 272,657.3 287,897.7 311,320.6 LIVESTOCK AND PRODUCTS-.... Cattle and Calves ... ... 58,237.0 59,272.8 66,216.7 84,701.2 93,630.2 Goats and Sheep ...... 7,531.8 4,249.8 4,854.7 5,767.4 6,782.4 16,213.0 18,785.0 21,205.4 23,020.1 20,878.2 Chicken and eggs...... 7,086.4 7,440.7 6,005.9 8,788.4 10,674.8 Others .. .. ...... 5,004.8 2,124.7 2,562.1 3,124.9 3,634.9 Total .. ...... 94,072.9 91,873.0 100,844.7 125,401.9 135,600.5 327,128.7 373,502.1 413,299.6 446,921.2 336,088.7

7.6 Table 7.3 shows the quantum and price indices for marketed agricultural produce for the period 2013 to 2017. The quantum index for cereals declined from 95.8 in 2016 to 73.0 in 2017 in tandem with the observed decline in overall production. The drought experienced during the year coupled with the fall army worm infestation in some areas resulted in lower production of maize leading to decreased volumes of marketed maize. The price index for cereals increased from 213.4 in 2016 to 255.6 in 2017. The increase was mainly attributed to the reduced supply of the commodity in the market. Maize imports increased more than eight fold from 149 thousand tonnes in 2016 to 1,328 thousand tonnes in 2017. Rice imports increased by 23.1 per cent from 508.0 thousand tonnes in 2016 to 625.1 thousand tonnes in 2017. The quantum index for temporary industrial crops declined from 172.4 in 2016 to 116.9 in 2017. This was mainly due to the sharp decline in sugar cane production occasioned by shortage of mature sugarcane and the prolonged dry weather conditions that affected the growth of cane. Improved prices offered for sugarcane resulted in the price index for temporary industrial crops increasing from 169.7 in 2016 to 210.9 in 2017.

<sup>\*</sup> Provisional.

<sup>&</sup>lt;sup>1</sup>Data refers to fresh Horticultural exports only

7.7 The quantum index for permanent crops declined from 146.6 in 2016 to 136.0 in 2017. This is consistent with decreased marketed volumes of coffee and tea. The decline in marketed coffee is attributed to adverse weather conditions such as cold which affected the flowering of the coffee trees as well as incidences of Coffee Berry Disease and Leaf Rust in the main production areas. The decline in the volume of marketed tea was mainly as a result of hot and dry weather conditions in the first quarter of the year 2017. The price index for permanent crops however, increased from 216.9 in 2016 to 261.9 in 2017 due to improved prices offered for marketed coffee and tea.

Table 7.3: Volume and Price Indices of Recorded Sales of Agricultural Production, 2013 - 2017

Base: 2001=100

					Dase: 20	01=100
		2013*	2014	2015	2016	2017*
QUANTUM	Cereals	98.7	100.4	103.5	95.8	73.0
INDICES	Temporary Industrial Crops	160.9	157.9	165.9	172.4	116.9
	Horticulture	230.7	237.6	251.8	277.1	323.8
	Permanent Crops	135.4	140.1	123.9	146.6	136.0
	TOTAL CROPS	145.7	146.4	143.5	160.3	158.7
	Livestock and Products	262.5	263.3	293.5	328.2	308.3
	TOTAL	201.6	203.5	216.8	242.3	230.1
PRICE	Cereals	224.1	228.6	209.3	213.4	255.6
INDICES	Temporary Industrial Crops	179.5	161.3	159.7	169.7	210.9
	Horticulture	151.3	146.3	148.9	151.7	146.6
	Permanent Crops	179.7	174.4	243.2	216.9	261.9
	TOTAL CROPS	166.7	163.0	197.9	184.1	245.5
	Livestock and Products	279.5	297.5	298.3	321.7	331.2
	TOTAL	212.9	228.7	246.9	252.2	272.9

<sup>\*</sup> Provisional.

7.8 Table 7.4 details the average gross commodity prices paid to farmers for various commodities for the period 2013 to 2017. Tea prices increased by 23.9 per cent from KSh 24,732.35 per 100 kilogram in 2016 to KSh 30,652.18 per 100 kilogram in 2017. Coffee prices paid to farmers improved by 16.5 per cent from KSh 40,815.54 per 100 kilogram in 2016 to KSh 47,547.71 per 100 kilogram in 2017. Favourable prices were also realized for maize, sugarcane, milk, beef and pork.

Table 7.4: Average Gross Commodity Prices<sup>1</sup> to Farmers, 2013 - 2017

KSh per Unit

						Ron per Cint
	Unit	2013	2014	2015	2016	2017*
Coffee	100 Kg	28,409.58	39,185.89	37,480.02	40,815.54	47,547.71
Tea	100 Kg	21,903.43	19,063.96	29,656.27	24,732.35	30,652.18
Sisal	100 Kg	10,817.84	11,122.13	16,924.71	19,463.35	16,121.73
Sugar-cane	Tonne	3,685.00	3,133.00	3,125.00	3,386.81	4,237.25
Pyrethrum						
(Pyrethrin equivalent)	Kg	12,626.17	16,871.76	12,570.82	12,906.70	12,625.00
Seed Cotton	100 Kg	4,200.00	4,200.00	4,200.00	4,200.00	4,600.00
Maize	100 Kg	3,133.16	3,318.49	2,870.08	2,968.80	3,987.33
Wheat	100 Kg	3,744.85	3,495.34	3,561.62	3,718.40	3,197.99
Beef (third grade)	100 Kg	26,000.00	27,500.00	30,510.49	35,904.54	38,090.90
Pig meat	100 Kg	18,427.38	20,268.93	21,266.71	22,666.04	23,172.37
Milk	100 Litres	3,100.00	3,470.00	3,443.00	3,543.00	3,897.30

<sup>\*</sup> Provisional

7.9. Table 7.5 shows the aggregate value of sales of agricultural produce from large and small farms for the last five years. Total value of sales increased by 8.2 per cent from KSh 413.2 billion in 2016 to KSh 446.9 billion in 2017. The value of output from small farms increased by 8.2 per cent from KSh 301.7 billion in 2016 to KSh 326.3 billion in 2017. Sales from large farms similarly increased from KSh 111.6 billion in 2016 to KSh 120.7 billion in 2017. The share of sales from small farms to total marketed production remained the same at 73.0 per cent in 2017.

Table 7.5: Recorded Sale of Produce from Large and Small Farms, 2013 - 2017

	Large Farms		Small Farn	ıs	Total		Percentage
Year	KSh Mn.	Annual Percentage change	KSh Mn.	Annual Percentage change	KSh Mn.	Annual Percentage change	Share of SmallFarms
2012	93,866.7	0.7	250,755.4	5.1	344,612.4	3.9	72.8
2013	90,711.3	(3.4)	245,377.4	(2.1)	336,088.7	(2.5)	73.0
2014	87,997.6	(3.0)	239,131.1	2.5	327,128.7	(2.7)	73.1
2015	101,219.1	15.0	272,283.0	13.9	373,502.1	14.2	72.9
2016	111,590.9	10.2	301,708.7	10.8	413,299.6	10.7	73.0
2017*	120,668.7	8.1	326,252.4	8.1	446,921.2	8.1	73.0

<sup>\*</sup> Provisional.

7.10. The overall price index increased from 196.6 in 2016 to 225.9 in 2017 as shown in Table 7.6. The price indices for most of the inputs increased in 2017 with the largest increase recorded for fuel and power. However, the price index for bags recorded a 6.6 per cent decline during the year under review. The price index of service inputs rose by 8.6 per cent in 2017. The quantum index has been increasing over the last five years and stood at 368.2 in 2017. The largest increase in the quantum index was recorded for manufactured feeds. On the contrary, the quantum index on bags and other material inputs recorded a 21.0 per cent and 14.2 per cent decline, respectively over the same period.

 $<sup>^{1}</sup>$  Prices refer to the calendar year and may differ from those based on crop years. For tea and coffee , the prices are for black tea and coffee beans, respectively.

Table 7.6: Quantum and Price indices for Purchased Inputs, 2013 - 2017

Base: 2001=100

	Base: 2001–100				01=100
	2013	2014	2015	2016	2017*
Quantum Indices					
Fertilizers	114.5	180.1	245.0	280.4	304.9
Fuel and Power	84.1	101.1	106.2	123.6	145.2
Bags	72.7	54.2	54.7	55.2	43.6
Manufactured Feeds	364.8	381.6	398.5	415.3	538.5
Seeds	118.7	206.3	210.5	158.9	183.6
Other Material Inputs	149.3	152.7	151.5	179.0	153.6
Total Material Inputs	181.7	176.7	177.5	179.0	230.3
Service Inputs	217.2	369.5	320.5	373.0	320.1
TOTAL INPUTS	167.4	253.4	302.6	304.7	368.2
Price Indices-					
Fertilizers	250.5	230.7	231.1	197.8	230.1
Fuel and Power	232.0	179.2	126.3	123.3	147.3
Bags	187.2	228.4	241.4	277.6	259.4
Manufactured Feeds	260.4	226.9	244.3	252.7	279.2
Seeds	116.4	131.5	146.1	159.4	177.5
Other Material Inputs	166.0	173.4	201.3	196.5	225.2
Total Material Inputs	208.1	189.4	185.9	184.7	192.4
Service Inputs	216.4	206.3	234.7	241.8	262.6
TOTALINPUTS	212.5	191.3	198.9	196.6	225.9

<sup>\*</sup> Provisional

7.11. During the year under review, expenditure on farm inputs increased by 14.0 per cent from KSh 58.0 billion in 2016 to KSh 66.1 billion in 2017 as shown in Table 7.7. Expenditure on fertilizers, fuel and power accounted for more than half of the total expenditure on agricultural inputs during the review period. Purchases of seeds and manufactured feeds increased by 23.9 per cent and 10.3 per cent, respectively in 2017.

Table 7.7: Value of Purchased Agricultural Inputs<sup>1</sup>, 2013-2017

KSh Million 2013 2014 2015 2016 2017\* MATERIAL INPUTS-8,898.2 11,817.9 Fertilizers .. .. .. .. .. .. .. 12,172.4 13,930.7 17,612.1 Crop chemicals..... 4,477.8 4,337.6 4,771.4 5,572.3 7,044.8 Livestock drugs and medicines.... 2,988.4 2,688.3 3,606.6 4,179.2 4,610.7 Fuel and power.. .. .. .. .. .. 12,204.7 15,115.1 14,414.7 17,170.3 17,630.4 110.6 121.9 128.8 130.2 Bags .............. 135.2 6,192.2 7,073.2 7,983.5 Manufactured feeds .. .. .. .. .. 8,628.3 9,519.1 3,704.2 4,395.2 4,483.1 3,384.9 4,194.7 Seeds .. .. ..... 924.8 1,030.8 1,197.0 1,414.0 Other material inputs .. .. .. .. 1,560.0 39,501.1 46,580.0 Total 48,757.5 54,409.8 62,307.0 .. .. .. .. .. .. .. .. .. SERVICE INPUTS ........ 2,158.1 2,709.7 3,082.6 3,588.0 3,793.4 41,659.1 57,997.8 TOTAL INPUTS ........ 49,289.7 51,840.1 66,100.4

<sup>\*</sup>Provisional.

<sup>&</sup>lt;sup>1</sup>Excluding labour.

7.12. Table 7.8 shows price indices and terms of trade for the period 2013 to 2017. The general index of agricultural output prices increased from 166.4 in 2016 to 180.1 in 2017 due to higher prices for most agricultural commodities. The indices of prices paid also increased from 337.6 in 2016 to 369.5 in 2017. This was largely attributable to an increase in the index of purchased consumer goods in rural areas which rose from 478.6 in 2016 to 513.1 in 2017. The index of prices paid increased relatively faster than the index of agricultural output prices. The overall terms of trade in agriculture decreased from 49.3 in 2016 to 48.7 in 2017, continuing the decline observed from 2015.

Table 7.8: Price Indices and Terms of Trade for Agriculture, 2013 – 2017

Base:	2001	=100

	2013	2014	2015	2016	2017*
General Index of Agricultural Output Prices	140.4	150.9	162.9	166.4	180.1
PRICE PAID					
Purchased Inputs	212.5	191.3	198.9	196.6	225.9
Index of Purchased Consumer Goods-Rural Areas	390.3	420.7	449.7	478.6	513.1
INDICES OF PRICES PAID	301.4	306.0	324.3	337.6	369.5
Agricultural Sector Terms of Trade	46.6	49.3	50.2	49.3	48.7

<sup>\*</sup> Provisional

Crops 7.13. Maize production decreased by 6.3 per cent from 37.8 million bags in 2016 to 35.4 million bags in 2017 as shown in Table 7.9. This was mainly attributed to drought experienced in most parts of the country which resulted in lower yields. However, production of beans increased by 16.0 per cent from 8.1 million bags in 2016 to 9.4 million bags in 2017 while production of sorghum increased by 23.1 per cent.

Table 7.9: Estimated Production of Selected Agricultural Commodities, 2013 – 2017

Crop	Unit	2013	2014	2015	2016	2017*
Maize	Million bags	40.7	39.0	42.5	37.8	35.4
Beans	Million bags	7.9	6.8	8.5	8.1	9.4
Potatoes	Million tonnes	2.1	2.3	2.0	1.3	1.5
Sorghum	Million bags	1.7	1.9	2.1	1.3	1.6
Millet	Million bags	1.4	1.4	1.1	0.6	0.6

Source: Ministry of Agriculture and Irrigation

Maize: Figure 7.2 presents annual maize production and imports from 2013 to 2017. During the period under review, maize imports increased more than eight fold to 1,328 thousand tonnes. This was necessitated by the 6.3 per cent reduction in maize production from 3,402 thousand tonnes in 2016 to 3,186 thousand tonnes in 2017.

<sup>\*</sup> Provisional

5,000 4,500 4,000 **Thousand Tonnes** 3,500 3,000 2,500 2,000 1,500 1,000 500 0 2013 2014 2015 2016 2017\* IMPORTS 93 459 490 149 1,328 PRODUCTION 3,663 3,510 3,825 3,402 3,186

Figure 7.2: Maize Production and Imports, 2013-2017

7.15. Retail market prices for selected food crops for the months of March and September from 2013 to 2017 are shown in Table 7.10. Prices of all the selected crops increased during the month of March 2017 compared to prices in the same period in 2016. The price of potatoes and cabbages decreased by 21.2 per cent and 6.1 per cent, respectively in the month of September 2017 compared to the same period in 2016.

Table 7.10: Retail Market Prices for Selected Food Crops, 2013 – 2017

KSh per Kg

	20	13	20	14	20	15	20	16	20	17
CROP	Mar	Sept	Mar	Sept	Mar	Sept	Mar	Sept	Mar	Sept
Maize	38.01	35.38	38.24	35.47	33.19	33.77	33.92	35.10	48.02	43.86
Beans	74.11	68.18	77.16	74.67	77.56	77.08	76.74	74.36	93.96	87.46
Finger Millet	76.06	75.96	78.90	79.29	83.71	88.86	84.03	84.62	108.59	105.20
Sorghum	53.47	42.1	54.07	54.01	55.51	53.60	54.36	52.58	72.65	64.85
Potatoes	32.07	29.06	31.20	30.33	34.46	34.11	39.56	38.91	55.96	30.67
Cabbages	23.99	28.19	24.67	24.75	38.86	22.17	25.71	31.73	37.54	29.79
Tomatoes	56.24	41.74	58.70	68.11	68.09	55.03	70.23	52.60	73.84	79.82
Bananas	39.01	34.98	42.50	42.46	37.26	37.46	37.36	41.82	49.18	50.68

7.16. Table 7.11 shows recorded sale of selected crops for the last five years. During the period under review, sale of all the selected crops decreased with pyrethrum (extract equivalent) registering the highest decrease of 42.4 per cent. Sales were mainly affected by reduced production as a result of unfavourable weather conditions. The quantity of maize sold continued to decline for the second year, reducing by 10.0 per cent from 265.8 thousand tonnes in 2016 to 239.2 thousand tonnes in 2017. Similarly, the quantity of wheat sold reduced by 27.3 per cent from 215.9 thousand tonnes in 2016 to 156.9 thousand tonnes in 2017. In addition, the volume of rice paddy, coffee and tea delivered to factories reduced by 20.2, 15.1 and 7.0 per cent, respectively over the same period.

Table 7.11: Recorded Sale of Selected Crops, 2013-2017

Crop	Unit	2013	2014	2015	2016	2017*
Maize <sup>1</sup>	000 Tonnes	316.4	289.4	295.3	265.8	239.2
Wheat <sup>2</sup>	000 Tonnes	185.0	218.0	227.3	215.9	156.9
Coffee	000 Tonnes	38.4	42.5	32.2	39.7	33.7
Tea	000 Tonnes	432.5	445.1	399.2	473.0	439.9
Cotton <sup>2</sup>	000 Tonnes	7.2	1.5	15.7	15.8	11.9
Sugar-cane <sup>2</sup>	Million Tonnes	6.7	6.5	7.2	7.2	4.8
Pyrethrum (extract equivalent)	Tonnes	4.2	3.6	3.7	3.3	1.9
Sisal	000 Tonnes	26.0	23.1	21.2	24.3	22.5
Rice Paddy <sup>2</sup> .	000 Tonnes	43.6	46.2	43.7	38.1	30.4

<sup>\*</sup> Provisional.

7.17. **Wheat:** Table 7.12 presents annual wheat production and imports from 2013 to 2017. Wheat production reduced by 23.1 per cent from 214.7 thousand tonnes in 2016 to 165.2 thousand tonnes in 2017. In order to meet the deficit in production, wheat imports increased by 36.2 per cent in 2017 from 1,362.3 thousand tonnes in 2016.

Table 7.12: Production and Imports of Wheat, 2013 - 2017

'000'	Γonn	es
-------	------	----

Year	Production <sup>1</sup>	Imports	Total
2013	194.5	1,033.1	1,227.6
2014	228.9	1,225.7	1,454.6
2015	238.6	1,421.8	1,660.4
2016	214.7	1,362.3	1,577.0
2017*	165.2	1,855.0	2,020.2

<sup>\*</sup> Provisional.

7.18. **Coffee**: Area, production and average yield of coffee by type of grower for crop year 2012/13 to 2016/17 is as shown in Table 7.13. During the period under review, the area under coffee production increased by 700 hectares from 114.0 thousand hectares in 2015/16 to 114.7 thousand hectares in 2016/17. Coffee production decreased by 11.5 per cent from 46.1 thousand tonnes in 2015/16 to 40.8 thousand tonnes in 2016/17. The decline was attributable to cold and rainy weather conditions, the bi-modal production system where the crop takes time to recover in one year; and extended dry weather during picking which adversely affected coffee production. Coffee production by Co-operatives declined by 14.0 per cent from 30.8 thousand tonnes in 2015/16 to 26.5 thousand tonnes in 2016/17. The average yield for cooperatives and estates decreased by 16.3 and 10.3 per cent, respectively in the 2016/17 crop year.

<sup>&</sup>lt;sup>1</sup> Includes purchases by National Cereals and Produce Board and millers.

<sup>&</sup>lt;sup>2</sup> Deliveries to factories/ginneries.

<sup>&</sup>lt;sup>1</sup>Includes retention for seed.

Table 7.13: Production, Area and Average Yield of Coffee by Type of Grower, 2012/13-2016/17

	2012/13	2013/14	2014/15	2015/16	2016/17*
AREA (Ha) '000-					
Co-operatives	85.2	85.3	87.8	88.2	88.8
Estates	24.6	24.7	25.7	25.8	25.9
TOTAL	109.8	110.0	113.5	114.0	114.7
PRODUCTION (Tonnes) '000-					
Co-operatives	21.9	32.7	27.2	30.8	26.5
Estates	17.9	16.8	14.8	15.3	14.3
TOTAL	39.8	49.5	42.0	46.1	40.8
AVERAGE YIELD¹ (Kg/Ha.)-					
Co-operatives	257.0	383.8	319.2	361.1	302.1
Estates	727.6	682.9	601.6	619.4	555.6

Source: Agriculture and Food Authority, Coffee Directorate

Note: The coffee year is from October to September

7.19. **Tea**: The area under tea increased by 6.5 per cent from 218.5 thousand hectares in 2016 to 232.7 thousand hectares in 2017 as shown in Table 7.14. However, production of tea reduced by 7.0 per cent from 473.0 thousand tonnes in 2016 to 439.8 thousand tonnes in 2017. Tea production by small holder growers decreased by 7.3 per cent to 246.1 thousand tonnes in 2017 while output within the tea estates declined by 6.6 per cent to 193.7 thousand tonnes over the same period. The depressed tea production was attributed to the drought that was experienced during the first half of 2017. The average yield for the small holder growers decreased from 2,086.4 kilograms per hectare in 2016 to 1,913.7 kilograms per hectare in 2017 while that within the tea estates decreased from 2,908.8 kilograms per hectare in 2016 to 2,603.5 kilograms per hectare in 2017.

<sup>\*</sup> Provisional.

<sup>&</sup>lt;sup>1</sup> Yield is obtained by dividing current production by previous acreage 3 years ago

Table 7.14: Production, Area and Average Yield of Tea by Type of Grower, 2013-2017

	2013	2014	2015	2016	2017*
AREA ('000 Ha)					
Smallholders	127.3	128.6	134.2	138.3	141.1
Estates	71.3	74.4	75.2	80.2	91.6
TOTAL	198.6	203.0	209.4	218.5	232.7
PRODUCTION ('000 Tonnes)					
Smallholders	249.8	262.4	237.6	265.6	246.1
Estates	182.6	182.7	161.6	207.4	193.7
TOTAL	432.4	445.1	399.2	473.0	439.8
AVERAGE YIELD (Kg/Ha) <sup>1</sup>					
Smallholders	2,172.0	2,126.8	1,900.8	2,086.4	1,913.7
Estates	3,209.8	2,833.7	2,459.7	2,908.8	2,603.5

 $Source: Agriculture\ and\ Food\ Authority,\ Tea\ Directorate$ 

7.20. **Sugarcane**: Area, production and average yield of sugarcane for the years 2013 to 2017 is shown in Table 7.15. During the year under review, the area under cane reduced to 191.2 thousand hectares compared to 220.8 thousand hectares in 2016. Reduction in cane area was attributable to conversion of some area under cane to other crops. Further, the quantity of cane delivered to factories reduced by 33.3 per cent from 7.2 million tonnes in 2016 to 4.8 million tonnes in 2017. This was on account of prolonged dry weather conditions which were unfavourable for the growth of cane leading to harvesting of immature cane. As a result, the average sugarcane yield reduced to 55.3 tonnes per hectare in 2017 compared to 62.2 tonnes per hectare in 2016, representing a decrease of 10.9 per cent.

Table 7.15: Planted Area, Area Harvested, Production and Average Yield of Sugarcane, 2013-2017

	2013	2014	2015	2016	2017*
Area under cane (Ha)	213,920	211,342	223,605	220,826	191,215
Area harvested (Ha)1	85,857	72,180	77,830	85,761	67,708
Total Production (Tonnes)	6,673,725	6,409,929	7,164,790	7,151,670	4,751,609
Production by non-contracted farmers (Tonnes)	1,979,802	1,977,068	1,995,777	1,816,726	1,004,304
Average yield (Tonnes/Ha)2	54.7	61.4	66.4	62.2	55.3

Source: Agriculture and Food Authority, Sugar Directorate

7.21. Domestic sugar production, imports and exports for 2013 to 2017 is shown in Table 7.16 and Figure 7.3. The total domestic sugar production declined by 41.2 per cent from 639.7 thousand tonnes in 2016 to 376.1 thousand tonnes in 2017. A total of 989.6 thousand tonnes of sugar was imported in 2017 to bridge the deficit occasioned by the low production during the year. Most of the sugar imports were meant for final consumption at 83.1 per cent of total sugar imports.

<sup>\*</sup> Provisiona

<sup>&</sup>lt;sup>1</sup>Obtained by dividing current production by the area four years ago

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup>Excludes area harvested by non-contracted farmers

 $<sup>^{2}</sup>$ Yield = (Total production - production by non-contracted farmers)/area harvested

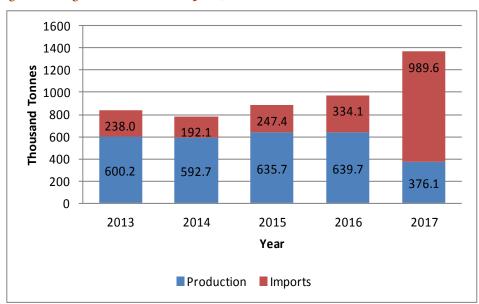
Table 7.16: Production, Imports and Exports of Sugar, 2013-2017

'000 Tonnes

Year	Production	Imports	Exports
2013	600.2	238.0	0.1
2014	592.7	192.1	0.4
2015	635.7	247.4	0.1
2016	639.7	334.1	0.1
2017*	376.1	989.6	0.4

Source: Agriculture and Food Authority, Sugar Directorate

Figure 7.3: Sugar Production and Imports, 2013-2017



7.22. **Horticulture:** Earnings from exports of fresh horticultural produce have exhibited an upward trend since 2014 as shown in Table 7.17. Export earnings from cut flowers grew by 16.1 per cent to KSh 82.2 billion in 2017 and accounted for 71.3 per cent of total earnings from horticulture in 2017, mainly occasioned by a 19.7 per cent increase in export volumes. Exports values of fruits and vegetables increased by 23.3 per cent and 3.0 per cent, respectively in 2017.

<sup>\*</sup>Provisional

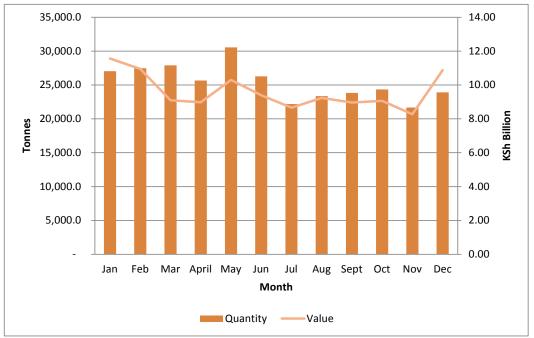
Table 7.17: Exports of Fresh Horticultural Produce<sup>1</sup>, 2013-2017

	Cut Fl	owers	Fru	its	Veget	ables	Tot	tal
	Volume	Value	Volume	Value	Volume	Value	Volume	Value
Year	000 Tonnes	KSh billion	000 Tonnes	KSh billion	000 Tonnes	KSh billion	'000 Tonnes	KSh billion
2013	105.6	56.0	31.1	4.8	77.2	22.9	213.9	83.7
2014	114.8	59.9	35.1	5.4	70.3	18.8	220.2	84.1
2015	122.8	62.9	46.2	6.6	69.7	20.9	238.7	90.4
2016	133.7	70.8	48.7	7.3	78.8	23.4	261.2	101.5
2017*	160.0	82.2	56.9	9.0	87.2	24.1	304.1	115.3

 $Source: Agriculture\ and\ Food\ Authority,\ Horticulture\ Directorate$ 

7.23. Monthly quantity and value of horticultural exports for 2017 are depicted in Figure 7.2. The highest quantities of horticultural exports of over 30.0 thousand tonnes were recorded in the month of May 2017. Export earnings from horticulture were highest in January 2017 and lowest in November, 2017.

Figure 7.4: Monthly Performance of Fresh Horticultural Exports, 2017



7.24. **Rice:** Table 7.18 shows rice production in various irrigation schemes over the last five years. An additional 7,363 hectares of land was placed under irrigation in 2017, representing a 50.5 per cent increase. This was largely attributable to the expansion of acreage in the out grower areas within the Mwea irrigation scheme. Similarly, the number of plot holders practicing irrigation rose by 25.1 per cent to 16,326 in 2017. Despite the increase in the area cropped and the increase in the number of plot holders, the volume of total paddy declined by 20.0 per cent to 81.2 thousand tonnes in 2017. This resulted to a 22.5 per cent decrease in gross value of output from all scheme areas to KSh 4.4 billion in the review period.

<sup>\*</sup> Provisional.

<sup>&</sup>lt;sup>1</sup> Excludes exports of processed horticultural produce and nuts.

Table 7.18: Production of Rice in Irrigation Schemes, 2012/13 - 2016/17

	2012/13	2013/14	2014/15	2015/16	2016/17*
Mwea-					
Area cropped-Hectares	10,629	10,629	10,629	10,629	17,146
Plot-holders-Number <sup>1</sup>	7,178	7,178	7,178	7,178	7,178
Gross value of output-KSh million	3,880	3,872	5,727	4,726	3,558
Payments to plot-holders-KSh million	2,793	2,522	4,780	3,938	1,816
All Scheme Areas-					
Area cropped-Hectares	18,600	19,411	13,998	14,586	21,949
Plot-holders-Number	15,828	15,828	13,055	13,055	16,326
Gross value of output-KSh million	4,347	4,536	6,717	5,673	4,395
Payments to plot-holders-KSh million	3,205	3,345	5,508	4,591	2,169
Crops Produced - Tonnes					
Mwea-Paddy	64,672	70,416	91,624	78,760	59,291
Ahero-Paddy	8,326	7,405	7,942	6,494	7,752
W.Kano-Paddy	5,165	4,345	2,039	4,634	4,083
Bunyala-Paddy	4,278	4,289	4,600	4,522	3,632
S.W Kano-Paddy	8,262	9,574	10,268	7,100	6,440
Total Paddy	90,703	96,029	116,473	101,510	81,198

Source: National Irrigation Board

7.25. **Dairy Produce:** The quantity of milk delivered to dairy processors recorded a significant drop of 17.4 per cent from 648.2 million litres in 2016 to 535.7 million litres in 2017, after posting consistent growths in the previous years as presented in Table 7.19. Similarly, the quantity of processed milk and cream from processing plants decreased by 8.5 per cent and that of butter and ghee declined by 22.0 per cent. Production of cheese however, increased from 311.2 tonnes in 2016 to 338.3 tonnes in 2017.

7.26. **Livestock slaughtered:** The number of cattle and calves slaughtered in abattoirs rose by 5.3 per cent from 2,460.2 thousand in 2016 to 2,590.0 thousand in 2017. During the same period, the total number of goats and sheep slaughtered increased by 12.0 per cent to stand at 9,206.7 thousand. The number of pigs slaughtered increased for the third consecutive year, to 360.1 thousand in 2017. The increase in the number of livestock slaughtered was attributable to the increased livestock off take occasioned by drought experienced during the period under review to cushion from losses.

<sup>\*</sup>Provisional

Table 7.19: Livestock Slaughtered and Dairy products, 2013-2017

	Unit	2013	2014	2015	2016	2017*
Recorded Milk Production	Mn. Litres	523.0	540.0	615.9	648.2	535.7
Milk Processed						
Milk and cream	Mn. Litres	406.7	419.6	437.9	448.6	410.6
Butter and ghee	Tonnes	1,231.0	1,444.5	1,646.4	1,444.9	1,127.3
Cheese	Tonnes	267.4	265.7	302.9	311.2	338.3
Livestock Slaughtered						
Cattle and Calves	'000 Head	2,147.3	2,076.7	2,274.5	2,460.2	2,590.0
Sheep and Goats	'000 Head	6,084.8	6,138.5	6,560.8	8,220.2	9,206.7
Pigs	'000 Head	264.3	257.2	282.9	313.6	360.1

Source: Kenya National Bureau of Statistics, Kenya Dairy Board, State Department of Livestock

# Agricultural Training

7.27. Agricultural training provides the human capital required for agriculture sector development. Details on levels of enrolment at various institutions offering agricultural courses are presented in Table 7.20. Enrolment for agricultural courses at degree level registered a growth of 41.7 per cent from 17,095 students in 2016 to 24,221 students in 2017. Student enrollment for diploma courses at Egerton University maintained a downward trend and decreased by 70.5 per cent to 196 students in 2017. Enrolment for diploma courses in Bukura Institute of Agriculture and Naivasha Dairy Training Institute rose by 16.1 per cent and 70.8 per cent, respectively, in 2017. Kabete and Ndomba Animal Health Training Institutes enrolled their first diploma students in 2017. The number of trainees pursuing certificate courses in animal health declined from 326 in 2016 to 247 in 2017. The number of trainees attending short courses conducted at the Naivasha Dairy Institute and the Athi River Meat Training Institute more than doubled in 2017.

<sup>\*</sup> Provisional

Number

Table 7.20: Enrolment in Agricultural Training Institutions, 2013-2017

		2013			2014			2015			2016			2017*	
	Male Female	emale	Total	Male F	Female	Total	Male F	Female	Total	Male 1	Female	Total	Male ]	Female	Total
DEGREE LEVEL-Public Universities															
All Universities	5,948	3,587	9,535	7,758	4,438	12,196	9,420	5,800	15,220	10,165	6,930	17,095	14,835	9,386	24,221
DIPLOMA LEVEL-Public Universities															
Egerton	1,149	671	1,820	542	928	1,470	324	800	1,124	459	206	999	116	80	196
DIPLOMA LEVEL - MOA															
Bukura Institute of Agriculture	819	360	1,179	674	290	964	710	309	1,019	705	326	1,031	791	406	1,197
Naivasha Dairy Training Institute <sup>1</sup>	1		1		1	1	1	1	1	27	21	48	51	31	82
DIPLOMA - Animal Health Training Institutes <sup>2</sup>															
Kabete	1	ı	1	1	ı	1	1	1	1	1	ı	1	101	19	120
N domba	1	ı	٠	1	1	1	1	1	1	1	1	1	41	6	80
CERTIFICATE LEVEL-															
Naivasha Dairy Training Institute	122	42	205	138	93	231	102	89	170	64	59	123	55	63	118
Animal Health Training Institutes-															
Kabete	92	24	116	155	32	187	187	25	212	91	13	104	35	18	53
Nyahururu	52	28	80	51	27	78	51	22	73	52	24	92	46	28	74
N domba	140	44	184	230	65	295	337	68	426	118	28	146	95	25	120
Total	284	96	380	436	124	999	575	136	711	261	65	326	176	71	247
SHORT-TERM VOCATIONAL COURSES-															
Naivasha Dairy Training School	122	44	166	189	100	289	202	84	286	116	51	167	290	101	391
Athi River M.T. School	99	28	94	46	37	83	99	4	110	4	12	98	41	23	49
Total	188	72	260	235	137	372	788	128	396	160	63	223	331	124	455
Source: Ministry of Agriculture and Irigation; Public Universities and other Institutions	ties and othe	er Instituti	suo												

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup> The Diploma course at Naivasha DTI was approved in 2015 and the first intake was done in 2016.

 $<sup>^2\</sup>mathrm{Diploma}$  courses at the Animal Health Training Institutes (AHTIs) was introduced in 2017.

**Societies and** 7.28 The total number of societies and unions registered grew by 7.4 per cent, from 18,573 in **Unions in** 2016 to 19,951 in 2017 as presented in Table 7.21. A total of 67 multi-produce societies were Agricultural registered in 2017 while the number of dairy societies increased by 11.4 per cent over the activities same period. There has been a sustained growth in the number of non agricultural societies since 2014. The number of Savings and Credit societies grew by 4.8 per cent while that of other non-agricultural societies rose by 19.3 per cent in 2017. One agricultural union was registered in 2017.

Table 7.21: Number of Societies and Unions, 2013 - 2017

					Number
TYPE OF SOCIETY	2013	2014	2015	2016	2017*
Agricultural:					
Coffee	597	600	605	613	616
Sugar-cane	191	191	192	199	206
Pyrethrum	148	146	146	146	147
Cotton	78	60	61	62	62
Dairy	376	412	427	465	518
Multi-produce	2,068	2,118	2,169	2,222	2,289
Farm Purchase	116	116	117	118	118
Fisheries	86	92	94	99	111
Other Agricultural Societies	1,518	1,605	1,643	1,706	1,843
Sub- Total	5,178	5,340	5,454	5,629	5,910
Non-Agricultural:					
Savings and Credit	7,942	8,592	8,914	9,567	10,029
Other Non-Agricultural Societies	2,735	2,938	3,031	3,279	3,913
Sub- Total	10,677	11,530	11,945	12,846	13,942
Unions (Agricultural)	109	99	99	98	99
GRAND TOTAL	15,964	16,969	17,498	18,573	19,951

Source: Ministry of Industrialization and Enterprise Development, Directorate of Cooperatives

7.29. Table 7.22 gives details on sales of agricultural produce from co-operative societies. The total value of sales from co-operative societies went up by KSh 6 million to KSh 10.5 billion in 2017 mainly due to an increase in milk sales. The share of marketed coffee sold through cooperatives increased marginally from 29.4 in 2016 to 29.6 in 2017.

<sup>\*</sup> Provisional

Table 7.22: Sale of Selected Agricultural Produce by Co-operatives and their Contribution to Gross Farm Revenue, 2013 - 2017

Year	Coffee	Sugar cane	Pyrethrum	Cotton	Milk	Total
Sale (KSh Million)						
2013	4,785	239	36	3	5,405	10,468
2014	4,763	212	27	3	5,491	10,496
2015	4,769	213	27	3	5,497	10,509
2016	4,755	204	24	3	5,554	10,541
2017*	4,751	204	24	3	5,589	10,547
Share to marketed prod	uction (per	cent)				
2013	36.5	0.9	65.4	3.2	32.5	33.5
2014	28.6	1.0	44.2	4.7	29.2	18.8
2015	39.5	1.0	52.9	4.5	26.6	19.4
2016	29.4	0.9	64.3	5.5	28.5	17.7
2017*	29.6	1.0	90.6	5.5	26.8	18.3

Source: Ministry of Industry, Trade and Cooperatives, Directorate of Cooperatives

Food 7.30 Food Balance Sheet (FBS) is an important food security instrument used to measure Balance a country's national food supply, demand and per capita levels for the supply of food commodities. The FBS shows the trend in the overall national food supply during a specific period and reveals the extent to which the food supply is adequate in relation to nutritional requirements of a country. Supply side consists of food production, imports, and changes in stocks less exports while the demand side components include production used as food, feed, seed, processed, other uses and waste.

# **Indicators**

FBS 7.31 Table 7.23 gives a summary of the FBS indicators for the period 2013 to 2017. Per Caput Daily Supply from calories, proteins and fats increased by 1.3, 3.2 and 2.4 per cent, respectively, in 2017. The Per Caput Daily Supply from calories of 2,123 kilocalories was below the recommended daily allowance of 2,250 kilocalories. The overall Import Dependency Ratio (IDR) increased from 29.4 per cent in 2016 to 42.7 per cent in 2017 attributable to increased imports of vegetable products occasioned by food deficits experienced in the country. 7.32 During the review period, the total Self-Sufficiency Ratio (SSR) decreased by 14.1 percentage points to 60.3 per cent. The SSR from vegetable and animal products decreased by 15.0 percentage points and 0.7 percentage points respectively, in 2017. Per Caput Caloric Daily Supply from vegetable products and cereals increased by 2.1 per cent and 7.4 per cent, to 1,861 thousand kilo calories and 955 thousand kilo calories, respectively, in 2017. However, Per Caput Caloric Daily Supply from animal products decreased by 4.0 per cent from 273

thousand kilo calories in 2016 to 262 thousand kilo calories over the same period.

<sup>\*</sup> Provisional.

Table 7.23: Food Balance Sheet, 2013-2017

	Indicator	2013	2014	2015	2016	2017*
Per Caput	Calories - '000	2,284	2,202	2,288	2,095	2,123
Daily Supply	Proteins - Grams	67	64	69	63	65
	Fats - Grams	46	43	47	42	43
SSR - Per Cent	Per Cent Total		74	75	74	60
	Vegetable Products		71.6	72.2	71.3	56.3
	Animal Products	99.1	99.9	100	99.6	98.9
IDR - Per Cent	Total	23	29	28	29	43
	Vegetable Products	26	32.3	31.6	32.9	46.9
	Animal Products	1	1	0.8	1.2	1.9
Per Caput Caloric	Vegetable Products - '000 Kcl.	1,993	1,945	1,975	1,822	1,861
<b>Daily Supply</b>	Of which Cereals - '000 Kcl	917	925	920	889	955
	Animal Products - '000 Kcl	291	256	313	273	262

<sup>\*</sup>Provisional

Figure 7.5: Import Dependency and Self-Sufficiency Ratios, 2017

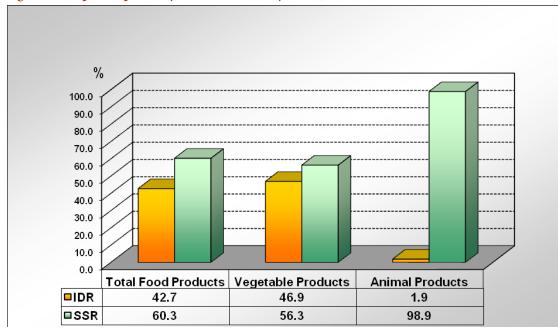


Figure 7.6: Caloric Supply by Main Food Groups, 2017

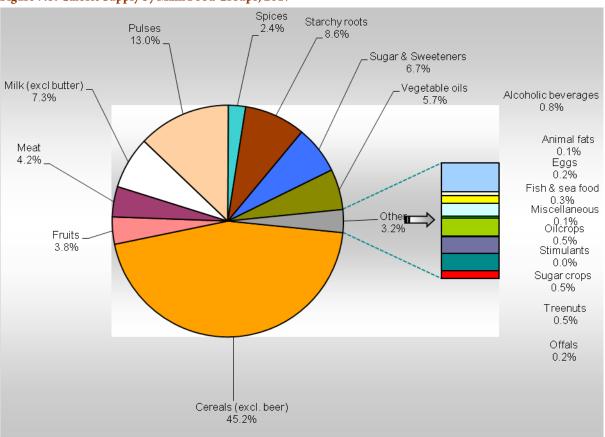


Table 7.24 (a): Food Balance Sheet, 2017

**FOOD BALANCE SHEET 2017** Population('000): 46,595 PER CAPUT SUPPLY Products DOMESTIC SUPPLY (1000 MT) **DOMESTIC UTILIZATION (1000 MT)** PER Prod. Imports Stock Exports Total Feed Seed Processed Waste Oth.Util. Food YEAR PER DAY changes D.S. FOOD alories Proteins Fats 1000 Metric Tons units Kg. grams grams **Grand total** Vegetable prod. Animal prod Cereals (excl. beer) Wheat 39.8 Maize 56.6 Rice (Milled Eq.) 14.9 Barley 0.0 0.0 Rye Oats 0.0 Millet 1.1 2.0 Sorghum Cereals, other 0.8 Starchy roots 72.4 Cassava 23.2 Potatoes 123<sup>-</sup> 26.4 Sweet Potatoes Yams 0.2 Roots, other 0.4 12.9 Sugar crops Sugar cane 12.9 Sugar beet 0.0 Sugar & Sweeteners 14.6 390 Sugar non-centrifugal 0.1 Sugar (raw equivalen 14.0 Sweeteners, other 0.0 Honey 0.5 29.3 Pulses Beans 16.1 Peas 0.1 Pulses, other 13.1 Treenuts 0.5 Oilcrops 0.0 Soybeans Groundnuts 0.3 Sunflowerseed 0.0 Rape & Mustard seed 0.0 Cottonseed 0.0 Coconuts (incl. copra 1.5 Sesame seed 0.0 Palm Olive 0.0 Oilcrops, other 0.0 Vegetable oils 49<sup>-</sup> Soybean oil Groundnut oil 0.0 Sunflower seed oil 0.0 Rape and mustard oil 0.0 Cottonseed oil 0.0 Palm kernel oil 0.0 Palm oil 4.0 Copra oil 0.4 Sesame seed oil 0.0 Olive oil 0.0 Rice bran oil Maize germ oil 0.3 Oilcrops oil, other 0.3 Vegetables 26.5 Tomatoes 6.0 Onions 0.6 Vegetables, other 19.9

			FOO	D BAL	ANCE	SHEE	T 201	7		Popula	tion('000	)):	46,5	95	
Products	DC	MESTIC	SUPPLY	(1000 M	Γ)		DOME	STIC UTILIZA	ATION (1	000 MT)		Р	ER CAP	JT SUPP	LY
												PER			
	Prod. Ir	mports	Stock	Exports	Total	Feed	Seed	Processed	Waste	Oth.Util.	Food	YEAR	1	PER DAY	
		(	changes		D.S.							FOOD	Calories	Proteins	Fats
					1000	Metric	Tons					Kg.	units	grams	grams
	L L														
Fruits	2907	116		253	2770	0	0	(	303	0	2415	51.8	80	1	1
Oranges & mandarin		43	(	0 1	117	0	0			0	105	2.3	2	0	(
Lemons & limes	98	4	(	0 2	100	0	0	(	10	0	90	1.9	1	0	(
Grapefruit	4			0 0	4	0					3	0.1	0	0	
Citrus, other	135			0 0	135	0					121	2.6	2	0	(
Bananas	742	1		0 0	743	0	0			0	632	13.6 11.5	22 28	0	(
Plantains Apples (excl. cider)	600	0 17		0 0	600 17	0	0				534 15	0.3	28	0	
Pineapples	363	2		0 132	233	0	0		_	0	197	4.2	6	0	
Dates	1	5		0 0	5						5	0.1	1	0	(
Grapes (excl. wine)	0			0 0	3	0	0	C			3	0.1	0	0	(
Fruit, other	891	40	(	118	813	0	0	(	58	0	708	15.2	18	0	(
Stimulants	481	12		5 528	-30	0	0	433	13	0	2	0.0	0	0	
Coffee	41	1		5 58	-11		0				0	0.0	0	0	
Cocoa Beans	0			0 1	2	0	0				2	0.0	0	0	(
Теа	440		(	0 470	-21	0	0	433	13	0	0	0.0	0	0	(
Spices	256	3		0 3	256	0	0	(	0	0	256	5.5	51	2	2
Pepper	0			0 0	0						0		0	0	(
Pimento	5	0		0 0	5	0	0	(			5	0.1	1	0	(
Cloves	1			0 0	0	V	0				0	0.0	0	0	(
Spices, other	250	3	(	0 2	251	0	0	(	0	0	251	5.4	50	2	2
Alcoholic beverages	533	7		0 2	538	0	0	(	0	0	538	11.5	17	0	(
Wine	0			0 1	3	,					3	0.1	0	0	(
Beer	210			0 1	211	0					211	4.5	5	0	(
Beverages, ferment		0		0 0	299		0				298	6.4	7	0	(
Beverages, alcoholic	25	1	(	0 1	26	0	0	(	0	0	25	0.5	4	0	(
Alcohol, non food	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Meat	724	1		0 10	715							18.0	90	7	8
Bovine meat	589	0		0 2	587	0					587	12.6	66 9	5 1	
Mutton & goat meat Pig meat	0			0 7	-7 -1	4	0				90 12	1.9 0.3	3	0	
Poultry meat	106	0		0 0	106	4	0				106	2.3	8	1	
Other meat	29	0		0 0	29						44	0.9	4	0	
										0		4.0	_		
Offals	76				76							1.6	5	1	
Animal fats	17			0 1	20								2	0	
Butter, ghee	1			0 0	1	0					1	0.0		0	_
Cream Fats, animal, raw	0 16			0 0	19		0				3	0.0	0 2	0	0
Fish, body oil	0			0 0	19		0		_		0	0.1	0	0	
Fish, liver oil	0			0 0	0		0				0	0.0	0	0	
Milk (excl butter)	3855			0 5	3937	17						87.5		8	
mink (exci butter)		07							•						
		_							13	0	67	1.4	5	0	
Eggs	84	•		0 0	84									_	
Eggs Fish & sea food	84	51	(	0 18	33	0	0	(				4.1	7	1	(
Eggs Fish & sea food Freshwater fish	<b>84 0</b> 0	<b>51</b> 28		<b>18</b>	33 25	<b>0</b>	0	(	0	0	144	3.1	5	1	(
Eggs Fish & sea food Freshwater fish Demersal fish	<b>84 0</b> 0 0	51 28 0		0 18 0 3 0 10	33 25 -10	0 0	0 0		0 0	0	144 0	3.1 0.0	5 0	1 0	(
Eggs Fish & sea food Freshwater fish Demersal fish Pelagic fish	84 0 0 0 0	51 28 0 21		0 18 0 3 0 10 0 3	33 25	0 0	0 0 0	(	0 0	0 0	144 0 21	3.1 0.0 0.4	5 0 1	1 0 0	(
Eggs Fish & sea food Freshwater fish Demersal fish Pelagic fish Marine fish, other	84 0 0 0 0	51 28 0 21 2		0 18 0 3 0 10 0 3 0 1	33 25 -10 18	0 0 0	000000000000000000000000000000000000000		0 0 0 0 0 0 0 0 0	0 0 0	144 0 21 23	3.1 0.0 0.4 0.5	5 0 1 1	1 0 0	(
Eggs Fish & sea food Freshwater fish Demersal fish Pelagic fish	84 0 0 0 0	51 28 0 21 2 0		0 18 0 3 0 10 0 3	33 25 -10	0 0 0 0 0 0 0	000000000000000000000000000000000000000		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0	144 0 21	3.1 0.0 0.4	5 0 1 1 0	1 0 0 0	(
Eggs Fish & sea food Freshwater fish Demersal fish Pelagic fish Marine fish, other Crustaceans	0 0 0 0 0 0	51 28 0 21 2 0		0 18 0 3 0 10 0 3 0 1 0 1 0 0	33 25 -10 18 1	0 0 0 0 0 0	0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	144 0 21 23 0	3.1 0.0 0.4 0.5 0.0	5 0 1 1 0 0	1 0 0 0	(
Eggs Fish & sea food Freshwater fish Demersal fish Pelagic fish Marine fish, other Crustaceans Molluscs other Cephalopods Aquatic products, other	0 0 0 0 0 0 0 0 0	51 28 0 21 2 0		0 18 0 3 0 10 0 3 0 1 0 0 3 0 1 0 0	33 25 -10 18 1 0	0 0 0 0 0 0	0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	144 0 21 23 0	3.1 0.0 0.4 0.5 0.0	5 0 1 1 0 0	1 0 0 0 0	(
Eggs Fish & sea food Freshwater fish Demersal fish Pelagic fish Marine fish, other Crustaceans Molluscs other Cephalopods Aquatic products, ot Aquatic mammals m	84 0 0 0 0 0 0 0 0 0 0 0 0	51 28 0 21 2 0 0 0		0 18 0 3 0 10 0 3 0 1 0 0 0 0 1 0 0 0	33 25 -10 18 1 0 -1 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0			0 0 0 0 0 0 0	144 0 21 23 0 1 0	3.1 0.0 0.4 0.5 0.0 0.0 0.0	5 0 1 1 0 0 0	1 0 0 0 0 0 0	()
Fish & sea food Freshwater fish Demersal fish Pelagic fish Marine fish, other Crustaceans Molluscs other Cephalopods Aquatic products, ot Aquatic mammals m Aquatic animals, oth	84 0 0 0 0 0 0 0 0 0 0 0 0	51 28 0 21 2 0 0 0		0 18 0 3 0 10 0 3 0 1 0 0 3 0 1 0 0	33 25 -10 18 1 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0			0 0 0 0 0 0 0	144 0 21 23 0	3.1 0.0 0.4 0.5 0.0	5 0 1 1 0 0 0	1 0 0 0 0 0 0	
Eggs Fish & sea food Freshwater fish Demersal fish Pelagic fish Marine fish, other Crustaceans Molluscs other Cephalopods Aquatic products, ot Aquatic mammals m	84 0 0 0 0 0 0 0 0 0 0 0 0	51 28 0 21 2 0 0 0		0 18 0 3 0 10 0 3 0 1 0 0 0 0 1 0 0 0	33 25 -10 18 1 0 -1 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0			0 0 0 0 0 0 0	144 0 21 23 0 1 0	3.1 0.0 0.4 0.5 0.0 0.0 0.0	5 0 1 1 0 0 0	1 0 0 0 0 0 0	()
Fish & sea food Freshwater fish Demersal fish Pelagic fish Marine fish, other Crustaceans Molluscs other Cephalopods Aquatic products, ot Aquatic mammals m Aquatic animals, oth Aquatic plants Miscellaneous	84 0 0 0 0 0 0 0 0 0 0 0 h - 18	51 28 0 21 2 0 0 0 - -	-	D 18 D 3 D 10 D 3 D 10 D 3 D 1 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0	33 25 -10 18 1 0 -1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	- -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 	144 0 21 23 0 1 1 0 - - 0 -	3.1 0.0 0.4 0.5 0.0 0.0 0.0 - - 0.0	50 00 11 11 00 00 00 	1 0 0 0 0 0 0	( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (
Fish & sea food Freshwater fish Demersal fish Pelagic fish Marine fish, other Crustaceans Molluscs other Cephalopods Aquatic products, ot Aquatic mammals m Aquatic animals, oth Aquatic plants	84 0 0 0 0 0 0 0 0 0 0 0 h e 0 18	51 28 0 21 2 0 0 0 0 - - - - 0		0 18 0 3 0 10 0 3 0 1 0 0 0 0 1 0 0 0 0 1 0 0	33 25 -10 18 1 0 -1 0  -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	(		0 0 0 0 0 0 0 0 0 	144 0 211 23 0 1 1 0 - - 0 3	3.1 0.0 0.4 0.5 0.0 0.0 0.0 - -	50 00 11 11 00 00 00 	1 0 0 0 0 0 0 0	( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (

Table 7.24 (b): Food Balance Sheet, 2016

**FOOD BALANCE SHEET 2016** Population('000): 45,367 PER CAPUT SUPPLY Products DOMESTIC SUPPLY (1000 MT) DOMESTIC UTILIZATION (1000 MT) PER Prod. Imports Stock Exports Total eed Seed Processed Waste Oth.Util. YEAR PER DAY changes D.S. FOOD 1000 Metric Tons units grams grams Kg. **Grand total** Vegetable prod Animal prod. Cereals (excl. beer) 394<sup>-</sup> Wheat 32.5 Maize 58.2 Rice (Milled Eq.) 12.7 Barley 0.0 0.0 Rye 0.0 Millet 6′ 0.5 1.4 Sorghum Cereals, other 0.9 Starchy roots 70.6 Cassava 23.8 23.4 Potatoes Sweet Potatoes 22.8 Yams 0.2 Roots 0.4 Sugar crops Sugar cane 66.2 Sugar beet 0.0 Sugar & Sweeteners 14.9 653 334 15 Sugar non-centrifugal 0.1 -313 Sugar (raw equivalen 14.4 Sweeteners, other 0.0 Honey 0.5 27.7 Pulses Beans 14.3 Peas 0.1 Pulses, other 13.3 Treenuts 0.3 Oilcrops 0.0 Soybeans 0.2 Groundnuts 0.0 Sunflowerseed 0.0 Rape & Mustard seed 0.0 Cottonseed Coconuts (incl. copra 1.4 0.0 Sesame seed Palm 0.0 Olive Oilcrops, other 0.0 Vegetable oils 5.1 0.0 Soybean oil Groundnut oil 0.0 Sunflower seed oil 0.0 Rape and mustard oil 0.0 Cottonseed oil 0.0 0.0 Palm kernel oil Palm oil 4.1 Copra oil 0.4 Sesame seed oil 0.0 0.0 Olive oil Rice bran oil Maize germ oil 0.3 0.3 Oilcrops oil, other Vegetables 28.9 6.6 Tomatoes 0.6 Onions Vegetables, other 21.7

			FOO	D BAL	ANCE	SHEE	T 201	6		Popula	tion('000	0):	45,3	367	
Products	D	OMESTI	C SUPPLY	(1000 M	T)		DOM	ESTIC UTILIZ	ATION (1	000 MT)		P	ER CAP	UT SUPI	PLY
	Prod.	Imports	Stock changes	Exports	Total D.S.	Feed	Seed	Processed	Waste	Oth.Util.	Food	PER YEAR FOOD		PER DAY	Fats
					1000	Metri	Tons					Kg.	units	grams	grams
Fruits	2730	101	0	249	2583	0	0	6	284	0	2248	49.5	80	1	1
Oranges & mandarins	65	49	0		113	0		C				2.2	2	0	0
Lemons & limes	13	1	0		13	0	0	(				0.3	0	0	
Grapefruit Citrus, other	135	0	0		135	0	0	(				0.0 2.7	0	0	
Bananas	691	1	0		692	0		(				13.0	21	0	
Plantains	600	0	0		600	0	0	6				11.8	29	0	
Apples (excl. cider)	2	16	0		18	0	0	(	1		17	0.4	0	0	
Pineapples Dates	388	1 4	0		257 5	0	0	(				4.8 0.1	7	0	
Grapes (excl. wine)	0	3	0		3	0	0					0.1	0		
Fruit, other	834	27	0	116	745	0	0	(	54	0	646	14.2	18	0	0
Stimulants	519	12	5		-6	0		465				0.1	0		
Coffee	46	1	5		-5	0	0	(					0		
Cocoa Beans Tea	0 473	9	0		-2	0	0	465			0		0	0	
											-				
Spices Pepper	<b>256</b> 0	<b>3</b>	0		<b>256</b>	0	_	(				<b>5.6</b> 0.0	<b>52</b>	0	
Pimento	5	0	0		5	0	0	(					1	0	
Cloves	1	0	0		0	0	0	(			0		0	0	
Spices, other	250	3	0	2	251	0	0	(	0	0	251	5.5	51	2	2
Alcoholic beverages	417	7	0		422	0		C				9.3	15	0	
Wine Beer	210	4	0		211	0	0	(			211	0.1 4.7	<u>0</u> 5	0	
Beverages, fermente	181	0	0		181	0	0				181	4.7	4	0	
Beverages, alcoholic	26	1	0		26	0	0	(			26	0.6	5	0	-
Alcohol, non food	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Meat	612	1	0		605	0		(				15.6	79	6	
Bovine meat Mutton & goat meat	529 0	0	0		528 -5	0	0	(				11.6 1.6	60 8	5 1	
Pig meat	0	1	0		-5 -1	0	0	(			10	0.2	3	0	
Poultry meat	64	0	0		64	0	0	0			64	1.4	5	0	
Other meat	19	0	0	0	19	0	0	(	0	0	34	0.7	3	0	0
Offals	76	0	0	0	76	0	0	(	0	0	76	1.7	5	1	0
Animal fats	17	4	0	1	20	0	0	13	0	3	4	0.1	2	0	0
Butter, ghee	1	0	0		1	0		C					1		
Cream	0 16	0	0		0 19	0	0	13			3		0	0	
Fats, animal, raw Fish, body oil	0	0	0		0	0	0	(					0	0	
Fish, liver oil	0	0	0		0	0		0					0		
Milk (excl butter)	4410	33	0	5	4438	17	0	379	344	0	4512	99.5	175	9	10
Eggs	84	0	0	0	84	0	5	(	13	0	67	1.5	5	0	0
Fish & sea food	0	47	0	19	28	0	0	(	0	0	187	4.1	7	1	0
Freshwater fish	0		0		20	0		(				3.1	5		
Demersal fish	0		0		-10	0		(					0		
Pelagic fish Marine fish, other	0		0		18 1	0		(				0.5	1		
Crustaceans	0		0		0	0		(					0		
Molluscs other	0	0	0	1	-1	0	0	(	0	0	1	0.0	0	0	0
Cephalopods	0	0	0	0	0	0	0	(	0	0	0	0.0	0	0	0
Aquatic products, oth Aquatic mammals me		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aquatic mammals me	- 0	- 0	- 0	- 0	- 0	- 0	- 0	- (	0	- 0	- 0	0.0	- 0	- 0	- 0
Aquatic plants	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Miscellaneous	18	7	2	14	13	0	0	7	0	3	3	0	1	0	0
Infant food	0			1	0	0		(							
Miscellaneous, other	18	7	2	14	13	0	0	7	0	3	3	0	1	0	0

## **Environment and Natural Resources**

Chapter

**Overview** 

The environment and natural resources sector registered mixed performance on selected indicators in 2017. Gross Value Added from the sector grew by 6.3 per cent in 2017. The total expenditure by national government on water and related services is expected to decline from KSh 43.9 billion in 2016/17 to KSh 35.5 billion in 2017/18. The value of fish landed which has been on the decline for the last three consecutive years, dropped by 6.1 per cent to KSh 23.0 billion in 2017. Total area covered by forest increased marginally from 4,185.2 thousand hectares in 2016 to 4,225.4 thousand hectares in 2017. Sales of timber from Government forests declined from 1,037.3 thousand true cubic meters in 2016 to 881.6 thousand true cubic meters in 2017. Total value of mineral output increased by 2.0 per cent to KSh 23.8 billion in 2017. The country experienced reduced rainfall and rising temperatures in most parts, during the review period.

Environment 8.2. Gross Value Added (GVA) of selected activities under the environment and natural and Natural resources sector from 2013 to 2017 is shown in Table 9.1. Overall, environment and natural **Resources** resources accounted for 3.2 per cent of Gross Domestic Product (GDP) while the GVA grew Gross Value by 6.3 per cent from KSh 235.7 billion in 2016 to KSh 250.6 billion in 2017. Output from **Added** Forestry and Logging grew by 9.2 per cent from KSh 91.1 billion in 2016 to KSh 99.5 billion in 2017 while that from Fishing and Aquaculture, and Water Supply, grew by 4.6 and 11.0 per cent, respectively, in 2017. During the review period, the GVA from the Mining and Quarrying industry dropped marginal from KSh 59.1 billion in 2016 to KSh 58.5 billion.

Table 8.1: Trends in Environment and Natural Resources Gross Value Added, 2013 - 2017

KSh Million Industry 2013 2014 2015 2016 2017\* Forestry and Logging..... 79,697 91,084 67,230 72,148 99,511 Fishing and Aquaculture ..... 34,315 38,732 40,300 35,033 36,647 Mining and Quarrying..... 40,742 44,936 54,584 59,130 58,459 42,102 40,442 46,814 50,418 55,989 **Total** 197,918 182,730 221,395 235,664 250,606 GDP at Current Prices 4,745,090 5,402,647 6,284,185 7,194,147 7,749,426 Natuaral Resource as per cent of GDP 3.9 3.7 3.5 3.2

Water 8.3. In pursuit of the policy to provide clean water to households within a reasonable distance, the Government has continued to initiate and maintain modest Water Purification Points (WPPs). As presented in Table 8.2, the number of WPPs is expected to increase from 248 in 2016/17 to 258 in 2017/18.

8.4. The Ministry of Water and Sanitation together with the private sector are engaged in drilling of boreholes to improve access to water for households. A total of 2,419 boreholes are expected to be sunk country-wide in 2017/18 compared to 1,557 boreholes sunk in 2016/17 as a drought mitigation measure. Whereas the number of boreholes drilled by the public sector declined, those drilled by the private sector almost doubled in 2017/18.

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup> Includes sewerage and waste management

Table 8.2: Water Purification Points and Boreholes Drilled, 2013/14 - 2017/18

					Number
	2013/14	2014/15	2015/16	2016/17	2017/18*
Water Purification Points <sup>1</sup>	230	234	242	248	258
Boreholes	376	607	446	1,557	2,419
Public	74	13	4	305	239
Private Sector	302	594	442	1,252	2,180

Source: Ministry of Water and Sanitation

8.5. Table 8.3 shows development expenditure by the National Government on water supplies and related services over the financial years 2013/14 to 2017/18. The overall National Government expenditure on water and related services is expected to decline from KSh 43.9 billion in 2016/17 to KSh 35.5 billion in 2017/18. Factors contributing to the decline include Government expenditure rationalization and the gradual channeling of funds to County Governments following devolution of water services.

8.6. The budget items mostly affected were allocations to the National Water Conservation and Pipeline Corporation (NWCPC) and Water Development. Allocation to the NWCPC dropped drastically from KSh 1.9 billion in 2016/17 to KSh 0.2 billion in 2017/18 on the account of transfer of the function of drilling boreholes and small dams to the County Governments.

8.7. Expenditure on Water Development had the highest share of the total budgetary allocation for water supplies and related services over the entire period. Expenditure on this item is expected to drop by 23.6 per cent from KSh 34.8 billion in 2016/17 to KSh 26.6 billion in 2017/18. Expenditure on Rural Water Supplies is expected to increase from KSh 0.6 billion in 2016/17 to KSh 1.6 billion in 2017/18, while that on Miscellaneous and Special Water programs is expected rise from KSh 0.4 billion to KSh 0.6 billion in 2017/18. Expenditure on Irrigation Development is expected to almost double while that of National Irrigation Board (NIB) is expected to increase by KSh 33.3 million in 2017/18.

Table 8.3: Development Expenditure on Water Supplies and Related Services by the National Government, 2013/14 - 2017/18

KSh	Mill	lion
-----	------	------

Item	2013/14	2014/15	2015/16	2016/17	2017/18*
Water Development	15,385.0	17,329.0	23,247.7	34,829.1	26,573.0
Training of Water Development Staff	135.0	170.0	150.0	31.0	31.0
Rural Water Supplies	300.6	1,326.5	1,436.7	620.2	1,622.0
Miscellaneous and Special Water Programs	2,153.0	304.8	528.0	373.7	607.0
National Water Conservation and Pipeline Corporation	3,507.2	2,460.0	1,156.0	1,891.7	244.0
Irrigation Development	139.0	157.2	2,190.9	245.0	480.0
National Irrigation Board	11,268.6	10,900.0	12,569.7	5,860.0	5,893.3
TOTAL	32,888.4	32,647.5	41,279.0	43,850.7	35,450.3

Source: Ministry of Water and Sanitation

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup> Cumulative

<sup>\*</sup> Provisional

**Fisheries** 8.8. Despite efforts made by the Government to ensure optimal exploitation of fishery products, the fisheries sub-sector continued to register a decline in performance as presented in Table 8.4. Over the last five years, fish from fresh water sources accounted for over 80 per cent of the total fish landed. Fish landed from marine sources contributed a relatively smaller share mainly due to inadequate facilities and technology necessary for fishing in deep waters. Total quantity of fish landed declined from 147.7 thousand tonnes in 2016 to 135.1 thousand tonnes in 2017. Fish from fresh water sources dropped from 123.5 thousand tonnes in 2016 to 111.8 thousand tonnes in 2017, mainly attributed to decline in catches from Lake Victoria, Lake Turkana and Fish Farming.

8.9. Fish landed from Lake Victoria accounted for 68.5 per cent of the total fish landed during the year. However, the lake's annual output dropped from 98.7 thousand tonnes in 2016 to 92.7 thousand tonnes in 2017. The encroachment of water hyacinth, coupled with destructive fishing practices and dwindling stocks of Nile perch species in the Lake are some of the reasons for the declining fish catch in Lake Victoria. Fish landed from Lake Turkana declined from 7.9 thousand tonnes in 2016 to 4.0 thousand tonnes in 2017 on account of receding water levels coupled with improper fishing practices and poor fish handling.

8.10. The quantity of fish from Fish Farming reduced from 15.0 thousand metric tonnes in 2016 to 12.4 thousand metric tonnes in 2017. The decline was partly attributed to failure by farmers to re-stock fish ponds in 2017, citing high prices of fish inputs and drying up of ponds due to drought during the year under review. Total output from marine sources recorded a decline of 3.7 per cent from 24.2 thousand tonnes in 2016 to 23.3 thousand tonnes with marine fish accounting for 88.5 per cent. Crustaceans and molluscs contributed only 3.0 and 8.5 per cent of marine sources, respectively, in 2017.

8.11. Total value of fish landed which has been on the decline for three consecutive years, dropped further from KSh 24.5 billion in 2016 to KSh 23.0 billion in 2017. The value of fresh water fish dropped by 6.1 per cent from KSh 19.8 billion in 2016 to KSh 18.6 billion in the year under review. Similarly, the value of fish from marine sources decreased from KSh 3.4 billion in 2016 to KSh 3.3 billion in 2017.

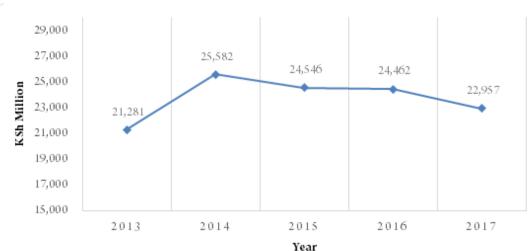


Figure 8.1: Value of Fish Landed, 2013 – 2017

Table 8.4: Quantity and Value of fish landed, 2013 - 2017

	2013	2014	2015	2016	2017*
Quantities - Tonnes:					
Freshwater fish					
Lake Victoria	124,643	128,708	109,902	98,666	92,727
Lake Turkana +	4,338	4,166	10,605	7,926	4,021
Lake Naivasha	231	633	1,072	1,064	1,689
Lake Baringo	263	302	176	141	155
Lake Jipe	116	115	123	106	112
Tana River dams	705	1,024	852	444	422
Fish Farming	23,501	24,096	18,656	14,952	12,356
Other areas	456	296	312	214	332
SUB-TOTAL	154,253	159,340	141,698	123,513	111,814
Marine Sources+					
Marine fish	7,667	20,870	19,742	21,190	20,601
Crustaceans	799	713	621	772	702
Molluscs	670	1,703	2,045	2,203	1,983
SUB-TOTAL	9,136	23,286	22,408	24,165	23,286
GRAND TOTAL	163,389	182,626	164,106	147,678	135,100
Value - KSh Million					
Freshwater fish	19,984	20,941	20,750	19,771	18,581
Marine fish	921	3,418	3,018	3,424	3,287
Crustaceans	286	968	475	888	777
Molluscs	90	255	303	379	312
TOTAL	21,281	25,582	24,546	24,462	22,957

Source: Kenya Fisheries Service

### **Forestry**

8.12. Table 8.5 shows the status of forests in the country from 2013 to 2017. Total forest area consisting of natural and plantation forests increased marginally from 4,185.2 thousand hectares in 2016 to 4,225.4 thousand hectares in 2017. The area under natural forests increased from 3,994.4 thousand hectares in 2016 to 4,036.0 thousand hectares in 2017, mainly due to an increase in area under indigenous mixed trees. The share of forest cover increased to 7.29 per cent in 2017 from 7.22 per cent in 2016.

Table 8.5: Forest Coverage by Category, 2013 - 2017

'000 Ha

Category of Forest Cover Type	2013	2014	2015	2016	2017*
Natural Forests					
Indegenous Mixed trees	3,853.0	3,795.5	3,854.6	3,884.4	3,928.0
Bamboo	59.0	57.0	60.0	58.0	59.0
Mangroves	54.0	54.0	54.0	52.0	49.0
Sub Total	3,966.0	3,906.5	3,968.6	3,994.4	4,036.0
Public Plantation forests	135.3	136.5	139.4	140.8	142.4
Private Plantation forests	71.0	60.0	55.0	50.0	47.0
Total Forest Area	4,172.3	4,103.0	4,163.0	4,185.2	4,225.4
Grassland and Bushland	34,909.0	41,200.0	41,170.0	41,100.0	41,100.0
Total Area for Country	58,037.0	58,037.0	58,037.0	58,037.0	58,037.0
Forest percentage	7.20	7.07	7.17	7.22	7.29

Source: Kenya Forest Service

<sup>\*</sup> Provisional

<sup>+</sup> Revised

<sup>\*</sup> Provisional

8.13. As shown in Table 8.6, the total area of Government forest plantations increased from 131.4 thousand hectares in 2016 to 135.1 thousand hectares in 2017, an increase of 2.8 per cent. Area planted with trees grew by 6.8 per cent from 10.3 thousand hectares in 2016 to 11.0 thousand hectares in 2017 while area clear-felled decreased from 6.8 thousand hectares in 2016 to 5.2 thousand hectares in 2017. During the same period, tree planting failures and damages from forest fire resulted to loss of 2,100 hectares of forest stocks. This mainly resulted from the widespread drought experienced in the country during the year.

Table 8.6: Government Forest Plantation Stocking, 2013 - 2017

Stocking	2013	2014	2015	2016	2017*
Previous Plantation Area <sup>1</sup>	127.1	129.4	129.4	130.5	131.4
Area Planted	8.2	7.1	10.0	10.3	11.0
Total	135.3	136.5	139.4	140.8	142.4
Area Clear felled	4.7	6.1	4.7	6.8	5.2
Planting failures/fire damages	1.2	1.0	4.2	2.6	2.1
Total Area	129.4	129.4	130.5	131.4	135.1

Source: Kenya Forest Service

8.14. Table 8.7 presents recorded sales of products from government forest in 2013 to 2017. Total sales of timber decreased from 1,037.3 thousand true cubic meters in 2016 to 881.6 thousand true cubic meters in 2017. The sales of softwood timber declined by 17.4 per cent from 966.4 thousand cubic meters in 2016 to 798.2 thousand cubic meters in 2017, reflecting the impact of control measures put in place to conserve the existing forests. Notable decline was also recorded on sale of fuel wood which reduced from 147.2 thousand stacked cubic meters in 2016 to 53.7 thousand stacked cubic meters in 2017. However, sales of hardwood timber grew by 17.6 per cent to 83.4 thousand true cubic meters in 2017 from 70.9 thousand true cubic meters in 2016. Sales of power poles recorded an increase of 48.7 per cent during the review period.

Table 8.7 - Sale of Products from Government Forest, 2013 - 2017

Forest Products	2013	2014	2015	2016	2017*
Timber - '000 true cu. metres-					
Soft wood	933.7	1,167.0	621.1	966.4	798.2
Hard wood	-	30.6	12.4	70.9	83.4
TOTAL	933.7	1,197.6	633.5	1,037.3	881.6
Fuelwood (000 stacked cu. Metres)	64.0	70.0	43.7	147.2	53.7
Power Poles (000)	14.5	43.3	34.5	23.0	34.2

Source: Kenya Forest Service

**Mining** 8.15. Table 8.8 presents the quantity and value of mineral production for the last five years. Soda ash output increased marginally from 301.7 thousand tonnes in 2016 to 303.6 thousand tonnes in 2017. Gold and salt outputs recorded significant growths, from 0.2 thousand tonnes and 23.4 thousand tonnes in 2016 to 0.5 thousand tonnes and 43.2 thousand tonnes in 2017, respectively. The increase in gold output was partly due to an upsurge in gold mining activities following abolition of the special gold license which was prohibitively expensive. However, fluorspar output declined by 83.8 per cent from 42.6 thousand tonnes in 2016 to 6.9 thousand tonnes in 2017.

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup> Opening stock at the beginning of the year

<sup>\*</sup> Provisional.

## **Economic Survey 2018**

8.16. Extraction of Titanium ore increased by 1.5 per cent from 588.4 thousand tonnes in 2016 to 597.0 thousand tonnes in 2017. During the review period, titanium ore concentrates recorded marginal growths of 0.9, 4.3 and 1.0 per cent for Ilmenite, Rutile and Zircon, respectively. Gemstones (rough) output reduced by 76.0 per cent from 518.2 thousand tonnes in 2016 to 124.3 thousand tonnes in 2017. On the other hand, the quantities of crushed refined soda dropped from 741 thousand tonnes in 2016 to 539 thousand tonnes in 2017, representing a 27.3 per cent decrease.

8.17. Total value of mineral output increased by 2.1 per cent from KSh 23.3 billion in 2016 to KSh 23.8 billion in 2017. The low growth in value despite high mineral prices was contributed by decreased earnings from fluorspar, gemstones and salt. Earnings from gold more than doubled from KSh 652.5 million in 2016 to KSh 1,533.6 million in 2017. Earnings from titanium ores increased by 2.3 per cent from KSh 13.3 billion in 2016 to KSh 13.6 billion in 2017.

Table 8.8: Quantity and Value of Mineral Production, 2013 - 2017

Mineral	2013	2014	2015	2016	2017*
Quantities - Tonnes:					
Minerals-					
Soda Ash	468,215.0	409,845.0	319,761.0	301,719.0	303,580.0
Fluorspar	71,987.0	97,156.0	70,096.0	42,656.0	6,945.0
Salt	8,895.0	18,936.0	21,201.0	23,425.0	43,245.1
Crushed Refined Soda	947,074.0	851,906.0	614,055.0	741,000.0	538,952.2
Carbon Dioxide	18,436.0	19,450.0	19,750.0	19,550.0	19,775.0
Diatomite	1,054.0	1,195.0	1,090.0	1,237.6	1,278.3
Gold (kg)	2,100.0	237.1	336.9	196.9	502.6
Gemstones(cut) in 000 carrats	-	-	-	-	22,956.0
Gemstones (rough)	563.0	247.3	442.0	518.2	124.3
Manganese Ore	-	-	-	-	9,125.0
Titanium Ore Minerals	-00.0	374,131.2	549,897.0	588,421.0	596,987.0
Ilmenite	-	281,543.0	444,999.0	465,728.0	470,240.0
Rutile	-	52,465.0	78,947.0	87,716.0	91,454.0
Zircon	-	40,123.2	25,951.0	34,977.0	35,293.0
Value - KSh Million					
Soda Ash	8,865.2	7,840.8	6,599.6	6,227.2	6,259.7
Fluorspar	1,783.0	1,901.0	1,427.7	868.8	100.3
Salt	71.6	173.5	197.8	218.5	98.9
Crushed Refined Soda	631.9	568.4	409.7	494.4	1,108.9
Carbon Dioxide	495.6	503.9	525.6	514.9	510.7
Diatomite	69.6	70.6	70.6	75.2	79.4
Gold	7,432.6	695.3	978.7	652.5	1,533.6
Gemstones(cut) in 000 carrats	-	-	-	-	128.6
Gemstones (rough)	411.0	263.6	798.4	936.0	238.3
Manganese Ore	-	-	-	-	47.0
Titanium Ore Minerals	-00	9,063.4	12,819.0	13,296.9	13,648.2
Ilmenite	-	3,697.0	3,763.0	3,430.8	3,464.0
Rutile	-	4,085.2	6,329.0	6,818.7	7,109.3
Zircon	-	1,281.2	2,727.0	3,047.4	3,074.9
TOTAL	19,760.5	21,080.5	23,827.1	23,284.4	23,753.6

Source: Ministry of Mining and Petroleum

Wildlife 8.18. Table 8.9 presents average export prices of soda ash, fluorspar, and titanium ore and its concentrates for the period 2013 to 2017. The average export price of soda ash declined by 1.4 per cent in 2017 compared to 8.4 per cent in 2016. The export price for fluorspar improved by 2.8 per cent in 2017 while that of titanium ore and its concentrates increased by 43.8 per cent during the same period.

<sup>\*</sup> Provisional

Table 8.9: Average Export Prices of Soda Ash, Fluorspar, and Titanium Ore and Concentrates, 2013 - 2017

Sh per tonne

Mineral	2013	2014	2015	2016	2017*
Soda Ash	18,790	19,774	22,925	20,998	20,714
Fluorspar	21,978	20,029	20,368	17,313	17,798
Titanium Ore and Concentrates	-	20,198	19,100	17,968	25,840

<sup>\*</sup> Provisional

8.19. Kenya is endowed with different wildlife species which contributes substantially to the national economy through tourism. The population of most wildlife species in the country have declined over the years owing to factors such as poaching, habitat loss and drought.

8.20. The population of different wildlife species in the rangelands as derived from aerial sample surveys is shown in Table 8.10. Wildlife species whose numbers show substantial decline include Burchell's zebra, Grant's gazelle, giraffe, impala, thomson's gazelle and topi. Wildlife species that showed moderate decline in numbers include eland, elephants, gerenuk and Grevy's zebra. The main possible cause of these declines was prolonged drought that was experienced during the review period. The rest of the wildlife species declined in population numbers, although not to significant levels.

Table 8.10: Wildlife Population Estimates<sup>1</sup> in the Kenya Rangelands, 2013-2017

'000 Number

Species <sup>1</sup>	2013	2014	2015	2016	2017*
Buffalo	13.0	15.6	15.0	18.7	17.8
Burchell's Zebra	100.3	110.2	100.0	110.0	104.5
Eland	5.8	4.7	4.3	5.6	5.3
Elephant	16.0	15.9	15.8	22.0	20.0
Gerenuk	16.0	15.8	15.5	12.0	11.4
Giraffe	19.0	18.9	18.5	18.6	17.0
Grant's Gazelle	111.7	111.9	111.9	112.1	106.5
Grevy's Zebra	3.0	3.0	3.0	2.9	2.6
Hunters Hartebeest	0.7	0.3	0.3	0.4	0.4
Impala	61.8	59.9	59.0	58.0	55.1
Kongoni	5.0	4.9	4.9	5.5	5.2
Kudu	11.0	11.0	11.0	9.9	9.4
Oryx	14.5	14.0	13.9	10.0	9.5
Ostrich	28.5	27.8	27.7	28.4	26.9
Thomson's Gazelle	42.0	43.4	43.0	42.6	40.5
Торі	20.5	15.3	15.3	14.9	12.0
Warthog	18.4	17.0	16.9	15.2	14.4
Waterbuck	3.5	2.9	2.8	2.7	2.6
Wildebeest	276.0	270.0	265.0	240.0	228.0

Source: Directorate of Resource Surveys and Remote Sensing

<sup>\*</sup> Provisional

<sup>1</sup> Derived using aerial sample surveys

Refuse 8.21. Table 8.11 presents expenditure on cleaning and refuse management by Nairobi City Management County (NCC). The total expenditure for 2017/18 is expected to decline by 45.4 per cent from KSh 1,067.1 million in 2016/17 to KSh 582.3 million in 2017/18.

Table 8.11: Expenditure on Cleaning and Refuse Management by the Nairobi City County, 2012/13-2016/17

KSh Million

Expenditure Category	2013/14	2014/15	2015/16	2016/17	2017/18*
Cleaning and Administration	151.0	143.0	-	-	-
Cleaning - General	36.9	20.9	-	-	-
Refuse Removal	380.0	255.2	862.7	1,067.1	582.3
Total	567.9	419.1	862.7	1,067.1	582.3

Source: Nairobi City County

8.22. Management of solid waste has been a big challenge facing authorities mandated to undertake this task. There was a slight drop of solid waste collected by NCC from 460.0 thousand tonnes collected in 2016 to 459.9 thousand tonnes in 2017 as shown in Table 8.12.

Table 8.12: Solid Waste Collected, 2013 - 2017

000 Tonnes

Year	2013	2014	2015	2016	2017*
Nairobi County	274.4	331.0	282.0	460.0	459.9

Source: Nairobi City County

**Environment** 8.23. Table 8.13 presents the number of Environmental Impact Assessments (EIAs) **Impact** on the high risks projects for 2013 to 2017. High risk projects are those classified as **Assessments** posing substantial negative impacts to the environment. The number of EIAs on high risk proposed projects decreased by 1.7 per cent from 1,874 in 2016 to 1,842 in 2017. The energy sector recorded a significant increase in the number of EIAs compared to the other sectors. This was attributed to increased investments in oil and gas, especially in the increase in the number of petrol stations being constructed. The transport and communication sector recorded the highest number of EIAs in 2017 though there was a 17.9 drop from the number of EIAs received in 2016.

Table 8.13: Environment Impact Assessments by Sector, 2013 - 2017

Number

Sector	2013	2014	2015	2016	2017*
Transport and Communication	208	437	607	636	522
Energy	163	188	298	422	501
Tourism	12	11	14	11	8
Mining and Quarrying	26	19	18	28	51
Human settlements and Infrastructure	320	340	505	545	434
Agriculture and Forestry	34	34	26	21	31
Commerce and Industry	85	149	135	150	228
Water Resources	8	41	51	61	67
TOTAL	856	1,219	1,654	1,874	1,842

Source: National Environment Management Authority (NEMA)

<sup>\*</sup> Provisional

<sup>\*</sup> Provisional

Weather 8.24. An assessment of the long rains March-April-May (MAM) rainfall recorded from March Patterns to May 2017 indicated that the rainfall performance was generally poor over most parts of the country. The long rain seasonal rainfall was characterized by late onset as well as poor distribution, both in time and space. Generally sunny and dry weather conditions were dominant over the entire country in March 2017. Much of the rainfall was recorded during the second half of April and May 2017.

> 8.25. As shown in Figure 8.2, most meteorological stations in the country recorded below their seasonal Long-Term Means (LTMs) for the March to May long rain season. However, Machakos, Mtwapa and Mombasa stations recorded rainfall above the LTMs. Stations that recorded near-normal rainfall include Kisumu, Kakamega, Kericho, Eldoret, Kisii, Nyeri, Meru, Msabaha, Lamu, Malindi and Makindu. Stations that recorded the most depressed rainfall were Nyahururu, Mandera, Moi Airbase, Wilson Airport, Dagoretti, Thika, Voi, Marsabit and Lodwar.

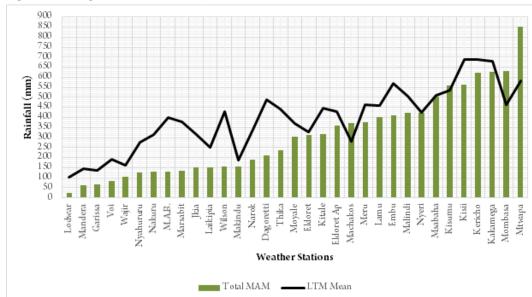


Figure 8.2: Long Rains (March to May) Performance, 2017

8.26. The seasonal short rains October-November-December (OND) was characterized by early cessation whereby most parts of the country remained generally sunny and dry. As shown in Figure 8.3, this was more so in North-Western and North-Eastern Kenya where all meteorological stations recorded little rainfall. Stations that received well above their LTM included Malindi, Wajir, Laikipia, Eldoret, Mombasa, Eldoret AP, Mtwapa, Thika and Dagoretti. Depressed rainfall was witnessed in Garissa, Lamu, Voi and Narok stations.

750 700 650 600 550 500 Rainfall (mm) 450 400 350 300 2.50 200 150 100 50 Marsabit Kericho Dagoretti Mandera Eldoret AP Mtwapa Kakamega Moi Air Base Mombasa Nakuru Machakos Weather Stations Total OND \_\_\_\_LTM Mean

Figure 8.3: Short Rains (October to December) performance, 2017

8.27. Figure 8.4 depicts the annual, March to May, June to August and October to December seasonal rainfall trends being on the decrease during the period 2008 to 2017. However, during the review period, annual and October to December seasonal rainfall trend line shows a sharp reduction. The October to December seasonal rainfall was characterized by high temporal variability. There was low average rainfall of less than 200 mm in 2010 and 2016 and high average rainfall of more than 400 mm in 2011 as shown in Table 8.14. The March to May season, was characterized by low temporal variability with a low average rainfall of about 250 mm in 2009, and a high average of more than 400 mm in 2010 and 2013.

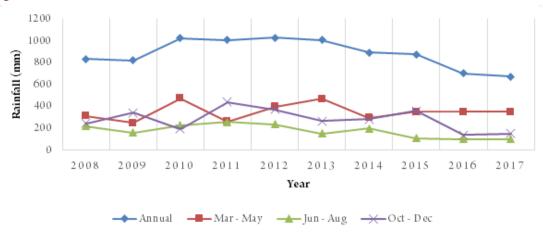
Table 8.14 - Mean Annual and Seasonal Rainfall

mm

Season	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Annual	835.8	820.7	1,024.1	1,009.5	1,030.4	1,007.9	891.7	876.5	703.9	675.3
Mar - May	313.9	250.9	476.9	262.5	399.3	469.0	297.8	350.3	350.7	354.0
Jun - Aug	219.7	160.9	228.4	260.4	239.8	155.3	199.2	110.4	104.6	104.0
Oct - Dec	246.1	342.9	197.1	439.9	372.1	265.6	286.1	360.6	142.8	155.0

Source: Kenya Meteorological Department

Figure 8.4: Mean Annual and Seasonal Rainfall



8.28. Both annual and seasonal maximum temperatures were characterized by increasing trends as shown in Table 8.15 and Figure 8.5. However, minimum temperatures were characterized by mixed trends as presented in Table 8.16 and Figure 8.6.

**Table 8.15 - Mean Annual and Seasonal Maximum Temperatures** 

0C 2016 Season/Year 2008 2009 2010 2011 2012 2013 2014 2015 2017 27.8 Annual..... 27.7 28.4 27.9 27.9 27.7 28.5 29 28.7 28.9 29.4 Mar - May..... 28.2 29.3 28.6 29.2 29.8 30.3 28.3 29.2 28.1Jun - Aug..... 25.5 26.9 26.2 26.7 25.5 25.8 27.1 27.4 26.6 27.4 28.4 27.4 29.1 29.2 Oct - Dec..... 27.9 28.1 27.6 28 28.7 28.7

Source: Kenya Meteorological Department

Figure 8.5: Mean Annual and Seasonal Maximum Temperatures

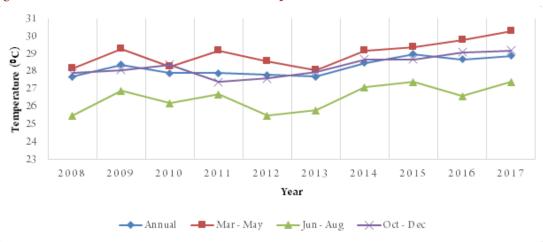


Table 8.16: Mean Annual and Seasonal Minimum Temperatures

										°C
Season/Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Annual	16.9	17.4	17.5	17.3	17.1	17.2	17.3	17.5	17.5	17.6
Mar - May	17.6	18.3	18.6	18.2	17.8	18.2	18.1	18.2	18.9	18.4
Jun - Aug	16.3	16.4	16.8	16.9	16.6	16.3	16.9	16.8	16.4	16.7
Oct - Dec	17.2	17.9	17.3	17.5	17.7	17.5	17.5	18.3	17.4	17.2

Source: Kenya Meteorological Department

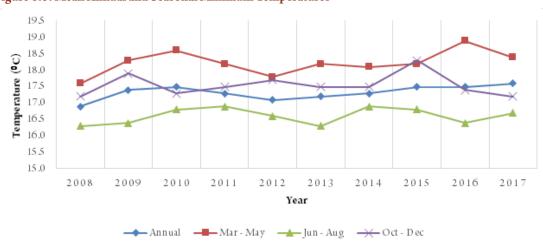


Figure 8.6: Mean Annual and Seasonal Minimum Temperatures

**Recent** 8.29. The Government recognizes the need to stop pollution from all sources and has instituted **Developments** a wide range of policy and regulatory measures to eradicate vice. The Kenya gazette notice no 2,356 of 2017 which aimed at reducing plastic pollution was enforced from 28th August 2017. The law banned the use, importation of and manufacture of plastic carrier bags in the country. The ban will go a long way in addressing the challenges in waste management and reduce the effects of non-biodegradable waste to the environment.

> 8.30. The third session of the UN Environment Assembly (UNEA 3), was held in Nairobi, Kenya from 4th to 6th December 2017 under the overarching theme of pollution. It positioned the country in the global leadership of sustainable management of the environment following the ban on plastic carrier bags.

> 8.31. The United Nations Climate Change Conference (UNCCC) was held in Bonn, Germany, from 6th to 18th November, 2017 and recognized climate change as one of the greatest challenges of the present day requiring actions to sustain temperature increases to below two degrees centigrade. Parties reached a historic decision on agriculture and established the Koronivia Joint Work on Agriculture to develop and implement new strategies for mitigation and adaptation the agriculture sector.

# **Energy Sector**

# Chapter

**▼**he energy sector was faced with increased international crude oil prices in 2017, with the prices peaking during the last quarter of the year. The increase was as a result of supply cuts by top producers under the Organization of Petroleum Exporting Countries (OPEC), the subsequent decline in commercial crude oil inventories and increased demand, mainly from China. The average Murban crude oil prices rose to US Dollars 54.91 per barrel in 2017 up from US Dollars 44.18 per barrel in 2016.

- 9.2. The total volume of petroleum products imported into the country increased from 5,990.0 thousand tonnes in 2016 to 6,347.7 thousand tonnes in 2017 while domestic petroleum exports declined by 2.1 per cent to 32.4 thousand tonnes in 2017. During the review period, total import bill of petroleum products increased by 34.3 per cent to KSh 265.3 billion while the total value of petroleum products exported, including re-exports, declined by 16.4 per cent to KSh 36.1 billion in 2017.
- 9.3. The total installed and effective electricity generation capacity, were 2,339.9 MW and 2,264.4 MW, respectively, in 2017. Total electricity generation expanded by 3.0 per cent to 10,359.9 GWh in 2017. Hydro generated power registered a significant drop of 29.9 per cent to 2,776.8 GWh while thermal and geo thermal generated power expanded by 72.3 and 6.1 per cent, respectively, in 2017. Domestic demand for electricity increased from 8,053.2 GWh in 2016 to 8,410.1 GWh in 2017 with sales to domestic and small commercial consumers increasing from 3,315.7 GWh to 3,528.3 GWh over the same period.

- **Petroleum** 9.4. Details of quantities and values of imports and exports of petroleum products for the period 2013 to 2017 are presented in Table 9.1. The quantity of petroleum products imported into the country increased by 6.0 per cent to 6,347.7 thousand tonnes in 2017. The volume of total exports decreased from 1,097.3 thousand tonnes in 2016 to 842.4 thousand tonnes in 2017 mainly on account of re-exports which declined by 23.9 per cent to 810.0 thousand tonnes. The share of re-exports to total exports by volume, declined marginally from 97.0 per cent in 2016 to 96.2 per cent in 2017.
  - 9.5. Total import bill of petroleum products expanded from KSh 197.6 billion in 2016 to KSh 265.3 billion in 2017. This may be attributed to rise in demand and prices of international crude oil during the review period. The value of domestic exports of petroleum products increased by 6.4 per cent to KSh 5,013.6 million in 2017. However, value of total exports declined by 16.4 per cent to KSh 36.1 billion in 2017 mainly attributed to a decline in the value of re-exports from KSh 38.5 billion in 2016 to KSh 31.1 billion in 2017. As a result, net balance increased from KSh 154.4 billion to KSh 229.1 billion in the review period.

Table 9.1: Quantity and Value of Imports, Exports and Re-exports of Petroleum Products<sup>1</sup>, 2013-2017

		Quantity	ity ('000 Tonnes)	nnes)			Value (KSh Million)	Million)		
Year	2013	2014	2015	2016	2017*	2013	2014	2015	2016	2017*
IMPORTS										
Crude Petroleum	567.4	:	:	:	:	41,037.4	÷	÷	÷	:
Petroleum Fuels	4,173.5	5,377.3	5,470.1	5,978.3	6,334.0	274,967.0	333,784.5	223,173.7	195,279.2	262,770.0
Lubricating Oils	7.7	2.6	12.0	9.1	11.2	1,422.9	1,423.8	2,468.0	1,741.4	1,999.0
Lubricating Greases	2.3	2.4	2.8	2.6	2.5	474.9	468.5	717.7	570.0	484.6
TOTAL	4,750.9	5,387.3	5,484.9	5,990.0	6,347.7	317,902.2	335,676.7	226,359.4	197,590.7	265,253.6
DOMESTIC EXPORTS										
Petroleum Fuels	19.2	46.4	4.8	12.5	6.4	1,386.8	2,735.4	321.1	545.5	368.6
Lubricating Oils	10.5	13.4	26.4	20.5	25.9	2,074.8	2,955.3	6,039.1	4,134.9	4,618.4
Lubricating Greases	0.2	0.1	0.1	0.1	0.1	31.3	14.7	21.5	31.2	26.5
TOTAL	29.8	6.65	31.2	33.1	32.4	3,493.0	5,705.4	6,381.6	4,711.6	5,013.6
RE-EXPORTS										
Petroleum Fuels	156.4	709.7	934.5	1,062.6	809.7	10,566.8	47,134.6	53,843.4	38,163.2	31,079.4
Lubricating Oils	4.7	6.2	0.2	1.6	0.3	435.3	870.8	33.8	302.2	43.5
Lubricating Greases	0.1	0.0	0.0	0.0	0.0	12.0	9.8	3.1	8.1	5.2
TOTAL	161.2	715.9	934.7	1,064.2	810.0	11,014.2	47,715.2	53,880.3	38,473.5	31,128.1
TOTAL EXPORTS	191.1	775.8	6.596	1,097.3	842.4	14,507.2	53,420.6	60,261.9	43,185.1	36,141.7
NET BALANCE						303,395.0	282,256.1	166,097.5	154,405.5	229,111.9

\*Provisional

1 Petroleum fuels refer to liquified petroleum gas, motor spirit premium, aviation spirit, jet fuel, illuminating kerosene, light and heavy diesel oils, and fuel oils

... Insignificant

9.6. Table 9.2 shows a breakdown of supply and demand for petroleum products for the period 2013 to 2017. Total domestic demand for petroleum products increased by 2.5 per cent to 5,170.6 thousand tonnes in 2017. During the review period demand of fuel oil, liquefied petroleum gas and illuminating kerosene went up by 49.6, 24.8 and 20.5 per cent, respectively, while domestic demand for light diesel oil and aviation spirit decreased by 10.0 per cent and 20.8 per cent, respectively, in 2017. Light diesel oil and motor gasoline (premium) continued to be the major contributors to the total domestic demand, jointly accounting for 64.9 per cent.

Table 9.2: Petroleum Fuels Supply and Demand, 2013-2017

					'000 Tonnes
	2013	2014	2015	2016	2017*
DEMAND -					
Liquefied petroleum gas	92.9	149.7	148.6	151.7	189.3
Motor gasoline (premium)	774.5	903.8	1,107.0	1,227.2	1,267.4
Aviation spirit	2.2	2.3	18.7	4.8	3.8
Jet/turbo fuel	551.3	529.3	635.3	619.2	649.7
Illuminating kerosene	296.1	300.3	390.1	371.7	448.0
Light diesel oil	1,601.2	1,721.4	2,080.9	2,318.3	2,086.2
Heavy diesel oil	18.7	3.0	0.1	0.5	1.2
Fuel oil	371.0	328.1	357.8	350.9	525.0
TOTAL	3,707.9	3,937.9	4,738.5	5,044.3	5,170.6
Refinery usage	31.3	0.0	0.0	0.0	0.0
TOTAL DOMESTIC DEMAND	3,739.2	3,937.9	4,738.5	5,044.3	5,170.6
Exports of petroleum fuels	19.2	46.4	4.8	12.5	6.4
TOTAL DEMAND	3,758.4	3,984.4	4,743.2	5,056.8	5,177.0
SUPPLY -					
Imports less re-exports:					
Crude oil	567.4	0.0	0.0	0.0	0.0
Petroleum fuels	4,017.1	4,667.6	4,535.7	4,915.7	5,524.2
TOTAL	4,584.5	4,667.6	4,535.7	4,915.7	5,524.2
Adjustment <sup>1</sup>	826.0	683.3	(207.6)	(141.1)	347.2
TOTAL SUPPLY	3,758.4	3,984.4	4,743.2	5,056.8	5,177.0

Source: Ministry of Energy / Energy Regulatory Commission

9.7. Net domestic sales of petroleum fuels by consumer category for the period 2013 to 2017 are shown in Table 9.3. Total net domestic sales of petroleum fuels increased by 2.5 per cent in 2017 to 5,170.6 thousand tonnes. Consumption of fuel used for power generation increased significantly to 44.7 thousand tonnes in 2017 from 15.3 thousand tonnes in 2016. This could be attributed to increased thermal generation of power during the year 2017. Similarly, agriculture; marine; tourism; industrial, commercial and other; and aviation industries also registered notable increases in the consumption of petroleum fuels in the review period.

9.8. In contrast, consumption by rail transport industry declined from 43.0 thousand tonnes in 2016 to 11.8 thousand tonnes in 2017 while consumption by the retail pump and road transport industry declined by 4.7 per cent to 3,541.2 thousand tonnes during the review period. Retail pump outlets and road transport; and industrial commercial and other categories jointly accounted for 84.7 per cent of total sales in during the year under review.

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup> A djustment for inventory changes and losses in production.

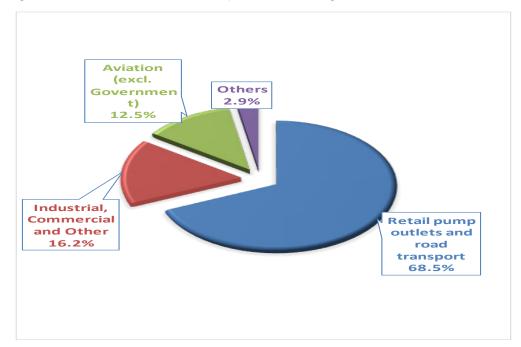
Table 9.3: Net Domestic Sale of Petroleum Fuels by Consumer Categories, 2013-2017

					'000 Tonnes
User	2013	2014	2015	2016	2017*
Agriculture	28.5	36.4	29.7	35.2	57.4
Retail pump outlets and road transport	2,573.7	2,791.0	3,414.7	3,717.6	3,541.2
Rail transport	14.2	15.6	36.9	43.0	11.8
Tourism <sup>1</sup>	5.5	5.1	4.8	5.1	9.1
Marine (excl. Naval Forces)	25.4	18.6	2.9	2.3	6.2
Aviation (excl. Government)	552.4	530.4	637.7	598.4	644.5
Power Generation	64.1	98.9	32.3	15.3	44.7
Industrial, Commercial and Other	462.3	451.2	572.1	615.9	837.2
Government	7.2	9.3	7.7	11.3	18.5
Balancing Item	-25.4	-18.6	0.3	0.1	0.0
TOTAL	3,707.9	3,937.9	4,738.5	5,044.3	5,170.6

Source: Ministry of Energy/Energy Regulatory Commission

9.9. Figure 9.1 displays share of sale of petroleum fuels by major consumer categories. Retail pump outlets and road transport; industrial, commercial and other; and aviation categories jointly consumed 97.1 per cent of total sales in 2017. All other sectors consumed 2.9 per cent of total sales in the year under review.

Figure 9.1: Sale of Petroleum Fuels by Major Consumer Categories, 2017



9.10. Table 9.4 presents the average wholesale prices of petroleum fuels in Mombasa for the month of December in the period 2013 to 2017. The prices for all the fuels were higher in December 2017 than those recorded in December 2016 and most of them were almost at same level with the prices experienced in December 2014. Increase in the wholesale price of liquefied petroleum gas was the most notable from KSh 80,078 per tonne in December 2016 to KSh 110,000 per tonne in December 2017, representing a 37.4 per cent rise. Wholesale price for illuminating kerosene increased by 13.1 per cent to KSh 87,048 per tonne in the same period. Prices of motor gasoline (premium) and light diesel oil increased by 9.7 per cent to KSh 138,421 and 8.7 per cent to KSh 105,221, respectively, in 2017.

<sup>\*</sup> Provisional

<sup>1</sup> Comprises sales to tour operators

Table 9.4: Whole Sale Prices¹ of Petroleum Fuels in Mombasa, 2013-2017

KSh per Tonne **PRODUCT** Dec. 2013 Dec. 2014 Dec. 2015 Dec. 2016 Dec. 2017 Liquefied Petroleum Gas 95,920 110,000 123,803 110,721 80,078 Motor Gasoline (Premium) 143,535 133,711 123,644 126,129 138,421 101,153 86,449 69,282 76,933 Illuminating Kerosene.... 87,048 Light Diesel Oil ...... 120,303 104,097 94,149 96,759 105,221 Industrial Diesel Oil ..... 74,238 73,874 Fuel Oil ............. 64,950 58,678

Source: National Oil Corporation

Month/Year

9.11. Details of Murban crude oil prices at the international market for the last five years are shown in Table 9.5. The price of crude oil increased significantly from an average of US Dollars 44.18 per barrel in 2016 to US Dollars 54.91 per barrel in 2017. This was occasioned by a decision by OPEC to cut crude oil supply and a robust demand from China. The highest prices of crude oil averaging at US Dollars 63.18 per barrel were recorded in the fourth quarter of 2017.

2015

2016

2014

Table 9.5: Murban ADNOC Prices<sup>1</sup>, 2013-2017

2013

2017\*

US\$/BBL

January	112.05	109.75	46.40	29.95	55.35
February	115.40	109.95	56.55	33.00	56.10
March	109.95	108.30	56.10	38.20	52.60
April	105.65	107.95	60.55	42.00	53.40
May	103.65	109.15	65.75	47.35	51.45
J une	103.00	111.65	63.70	49.05	47.30
July	106.85	109.50	57.70	44.60	48.60
August	111.70	104.25	48.85	48.85	48.85
September	114.50	97.95	46.60	45.50	55.70
October	112.45	87.35	47.30	51.35	63.83
November	112.20	77.00	43.55	46.15	63.65
December	113.85	60.65	37.25	54.15	62.06
Annual average	110.10	99.45	52.53	44.18	54.91

Source : Ministry of Petroleum and Mining

US\$/BBL: US Dollars per Barrel

9.12. Figure 9.2 illustrates the trends in the monthly international prices for crude oil and domestic fuel prices in 2017. International crude oil registered high prices in the fourth quarter of 2017, with the highest price of US dollars 63.83 per barrel being recorded in October while the lowest price of US dollars 47.30 per barrel was recorded in June. Similar trends were registered for domestic prices of motor gasoline (premium), gas oil and kerosene which declined moderately in July before attaining the highest prices in December 2017.

<sup>&</sup>lt;sup>1</sup>Including duties and VAT.

<sup>..</sup> Data not available

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup> Abu Dhabi Free On Board (FOB) Prices ADNOC: Abu Dhabi National Oil Company

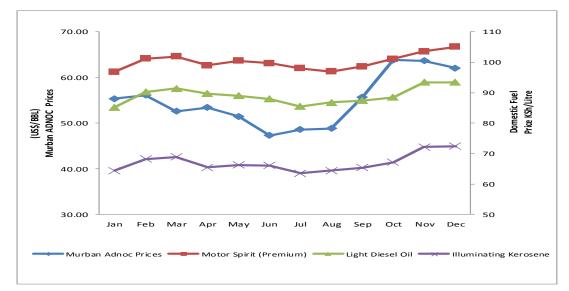


Figure 9.2: International Crude Oil and Domestic Fuel Prices, 2017

9.13. Table 9.6 depicts average retail prices of selected petroleum products in Kenya from 2013 to 2017. During this period, the average prices of motor gasoline (premium), light diesel oil and illuminating kerosene recorded increases of 11.1, 14.4 and 22.6 per cent, respectively. On the other hand, the average price of Liquefied Petroleum Gas (LPG) for a 13 Kg cylinder recorded a slight decline of 3.7 per cent from an annual average of KSh 2,154.81 in 2016 to an annual average of KSh 2,075.29 in 2017. This could be attributed to the ongoing government efforts to increase the use of LPG in order to promote use of clean energy.

Table 9.6: Average Retail Prices of Selected Petroleum Fuels, 2013-2017

					KSh per
			KSh per Litre		13 Kg cylinder
		M . G . II	_	***	Liqufied
		Motor Gasoline	Light Diesel Oil	Illuminating	Petroleum Gas
	Month	(Premium)		Kerosene	(LPG)
2013	January	112.35	104.83	84.71	2,630.73
	March	118.41	108.21	89.39	2,662.61
	June	108.93	100.01	82.38	2,573.75
	September	114.69	106.47	86.47	2,836.67
	December	110.11	105.44	83.99	2,876.00
	Annual Average <sup>1</sup>	113.89	105.38	83.92	2,769.24
2014	January	111.41	105.65	85.98	2,995.22
	March	114.43	105.79	84.82	3,094.16
	June	115.43	105.73	84.04	3,074.57
	September	112.46	103.28	82.55	3,111.74
	December	102.86	91.79	72.30	3,018.45
	Annual Average <sup>1</sup>	112.75	102.99	82.46	3,062.40
2015	January	93.75	84.3	66.53	2,954.36
	March	90.34	77.16	56.71	2,629.56
	June	98.14	84.26	62.73	2,387.04
	September	103.49	80.94	53.52	2,393.85
	December	90.94	79.47	54.23	2,369.46
	Annual Average <sup>1</sup>	94.63	80.99	57.67	2,465.44
2016	January	89.52	77.66	47.11	2,343.86
	March	86.46	66.68	43.13	2,277.48
	June	87.07	74.69	59.1	2,231.38
	September	92.28	83.42	60.08	2,029.12
	December	95.08	88.18	64.52	1,983.06
	Annual Average <sup>1</sup>	90.22	77.83	54.68	2,154.81
2017	January	96.88	85.2	64.41	1,989.50
	February	101.14	90.22	68.15	1,976.38
	March	101.91	91.39	68.93	1,998.70
	April	99.01	89.7	65.44	2,063.95
	May	100.48	89.02	66.26	2,104.29
	June	99.68	87.95	66.04	2,112.19
	July	98.00	85.45	63.55	2,073.62
	August	96.98	86.84	64.41	2,080.10
	September	98.62	87.4	65.33	2,094.22
	October	101.09	88.43	67.12	2,140.47
	November	103.58	93.37	72.2	2,128.59
	December	105.04	93.41	72.39	2,141.46
	Annual Average <sup>1</sup>	100.20	89.03	67.02	2,075.29

<sup>&</sup>lt;sup>1</sup>Twelve months average

Electricity 9.14. Details of installed and effective capacity of electricity by source are presented in Table 9.7a. Total installed capacity slightly increased to 2,339.9 MW in 2017 from 2,327.0 MW in 2016. Hydro capacity increased by 7.5 MW to 826.2 MW in 2017 as a result of new hydroelectric power plants in Genro Teremi Falls, Gura and Chania. Similarly, thermal capacity increased by 5.3 MW to 806.9 MW while solar capacity increased by 0.1 MW to 0.7 MW in 2017. Installed capacity for geo thermal, wind and co-generation remained at the same in 2017 as in 2016.

> 9.15. Total effective capacity increased by 10.3 MW to 2,264.4 MW in 2017. This was attributed to slight increases in hydro and thermal capacity in the review period. Similarly, there was an increase of 0.4 MW in solar capacity during the year under review. On the other hand, effective wind capacity declined by 1.9 per cent to 25.5 MW in 2017. Effective capacity of geo thermal and co-generation remained the same in 2017 as in 2016.

Table 9.7a: Installed and Effective Capacity of Electricity, 2013-2017

	INSTALLED CAPACITY MW				EFFECTIVE CAPACITY MW									
		Therm	Geo		Co-				Therm	Geo		Co-		
	Hydro	al	therm	TA7* . 1	gene-		Total	Hydro	al	therm	TA7* . 1	gene-		Total
Year		Oil	al	Wind	ration	Solar			Oil	al	Wind	ration	Solar	
2013	812.3	714.4	241.8	5.9	26.0		1,800.4	766.6	693.2	236.5	5.3	21.5		1,723.1
2014	818.3	751.3	573.4	26.3	26.0		2,195.3	797.5	712.6	558.0	5.3	21.5		2,094.9
2015	820.4	833.6	627.0	26.1	26.0	0.6	2,333.7	799.5	799.2	619.0	26.1	21.5	0.2	2,263.3
2016	818.7	801.6	652.0	26.1	28.0	0.6	2,327.0	797.5	762.9	644.0	26.0	23.5	0.2	2,254.1
2017*	826.2	806.9	652.0	26.1	28.0	0.7	2,339.9	805.0	765.8	644.0	25.5	23.5	0.6	2,264.4

Source: Kenya Power & Lighting Company Ltd and Kenya Electricity Generation Company Ltd

Installed capacity refers to the maximum theoretical electric output a power station could produce when operating at 100 per cent Effective capacity is the capacity a power station is expected to achieve given current operating constraints

9.16. Table 9.7b and Figure 9.3 present local generation and imports of electricity for the period 2013 to 2017. Total electricity generation increased by 3.0 per cent to 10,359.9 GWh in 2017. The hydro generation registered a significant drop of 29.9 per cent to 2,776.8 GWh mainly due to prolonged drought in 2017. In order to meet electricity demand, thermal generation increased significantly from 1,470.9 GWh in 2016 to 2,534.1 GWh in 2017. Electricity generation by wind and geothermal also increased by 8.7 and 6.1 per cent, respectively, in the review period. There was no emergency power production in 2017 following the decommissioning of Aggreko Muhoroni power plant in June 2016.

<sup>..</sup> Data not available

<sup>1</sup> Megawatt = 1,000 kilowatts = 1 million watts

Table 9.7b: Generation and Imports of Electricity, 2013-2017

	GWH										
	GENERATION									İ	
		Thermal oil		Co-			Imports	Total			
	Hydro					Geo thermal	gene-	Wind	Imports	Total	
		KenGen	IPP	EPP	Total	tileiiliai	ration				
2013	4,386.0	598.3	1,386.2	177.2	2,161.7	1,780.9	55.6	14.7	49.0	8,447.9	
2014	3,410.6	844.2	1,673.0	68.0	2,585.2	2,917.4	50.0	17.0	158.4	9,138.6	
2015	3,463.3	393.4	954.2	64.5	1,412.1	4,520.7	0.0	59.7	58.8	9,514.6	
2016	3,959.9	539.4	905.3	26.2	1,470.9	4,484.2	0.0	56.4	86.3	10,057.7	
2017*	2,776.8	998.2	1,535.8	0.0	2,534.1	4,756.3	1.9	61.3	229.6	10,359.9	

Source: Kenya Power & Lighting Company Ltd and Kenya Electricity Generation Company Ltd

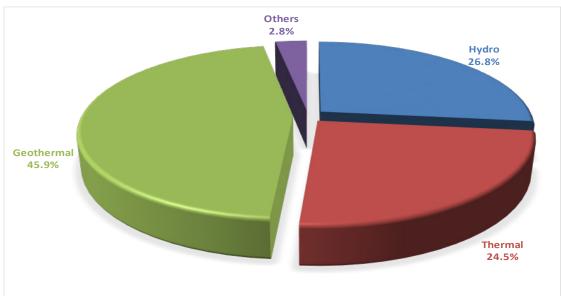
Notes

IPP: Independent Power Producers

EPP: Emergency Power Producers

1 Gigawatt hour = 1,000,000 kilowatt hours

Figure 9.3: Proportion of Electricity Generation by Source, 2017



9.17. The demand and supply of electricity for the period 2013 to 2017 is shown in Table 9.8. Total domestic demand for electricity recorded a 4.4 per cent increase in 2017 to 8,410.1 GWh. Sales to domestic and small commercial consumers increased by 6.4 per cent to 3,528.3 GWh in 2017, while that to large and medium (commercial and industrial) consumers increased by 52.7 GWh to 4,199.0 GWh in 2017. There was a 29.8 per cent increase in street lighting to 60.1 GWh in 2017 on account of increased activities to provide street lighting in towns by County Governments. Sales as a result of rural electrification continued to increase for the fourth year in a row, rising by 13.2 per cent to 580.6 GWh in 2017. Domestic and small commercial; large and medium (commercial and industrial) consumer categories jointly accounted for 91.9 per cent of total domestic demand during the year under review.

9.18. Total electricity imports increased significantly from 86.3 GWh in 2016 to 229.6 GWh in 2017 while exports declined from 39.1 GWh to 12.3 GWh in the review period. Local generation increased by 1.6 per cent to 10,130.3 GWh in 2017. Transmission and distribution losses amounted to 1,937.5 GWh in 2017, accounting for 18.7 per cent of the total supply.

<sup>\*</sup> Provisional

Table 9.8: Electricity Supply and Demand, 2013-2017

GWh

	2013	2014	2015	2016	2017*
Domestic and Small Commercial	2,866.1	3,273.8	3,254.9	3,315.7	3,528.3
Large & Medium (Commercial and Industrial).	3,585.3	3,891.5	4,017.8	4,146.3	4,199.0
Off-peak	32.7	33.7	25.7	31.8	42.2
Street Lighting	17.2	22.5	31.4	46.3	60.1
Rural Electrification	426.8	478.7	496.6	513.1	580.6
TOTAL DOMESTIC DEMAND	6,928.1	7,768.6	7,826.4	8,053.2	8,410.1
Exports to Uganda & Tanzania	43.7	30.8	46.7	39.1	12.3
Transmission and Distribution losses <sup>1</sup>	1,476.1	1,339.3	1,641.5	1,965.4	1,937.5
$TOTAL DEMAND = TOTAL SUPPLY^2 \dots$	8,447.9	9,138.7	9,514.6	10,057.7	10,359.9
Less imports from Uganda and Tanzania	49.0	158.4	58.8	86.3	229.6
Local generation	8,398.9	8,980.3	9,455.8	9,971.4	10,130.3

Source: Kenya Power and Lighting Company Ltd

Average 9.19. The average electricity tariffs for 2012/2013 to 2016/2017 are presented in Table 9.9. **Electricity** The average tariff yield increased by 6.6 per cent from KSh 14.68 per unit sold in 2015/2016 Tariffs to KSh15.65 per unit sold in 2016/2017.

Table 9.9: Average Electricity Tariffs<sup>1,</sup> 2013-2017

					KSh
	2012/2013	2013/2014	2014/2015	2015/2016	2016/2017*
Average Tariff Yield of Units Sold	14.38	15.52	14.97	14.68	15.65

9.20. Details of demand and supply of commercial energy by primary source is presented in Table 9.10. Total energy consumption increased from 6,270.0 thousand tonnes of oil equivalent in 2016 to 6,306.2 thousand tonnes of oil equivalent in 2017 mainly due to a 12.4 per cent increase in net imports of petroleum products. Total production of hydro, geo thermal, wind and co-generation energy dropped by 8.9 per cent to 672.9 thousand tonnes of oil equivalent in 2017 mainly as a result of a 29.9 per cent reduction in the local production of hydro power during the review period. Similarly, Consumption of coal and coke declined by 5.1 per cent to 462.7 thousand tonnes of oil equivalent in 2017. Consequently, the share of local production to total energy consumption dropped to 10.4 per cent in 2017 compared to a share of 11.7 per cent recorded in 2016. Annual per capita energy consumption stood at 135.3 Kg of oil equivalent in the review period.

 $<sup>^{1}\,\</sup>mathrm{A}\,\mathrm{verage}$  electricity tariff is calculated by dividing total revenue received by total units sold

Table 9.10: Production, Trade and Consumption of Energy1 by Primary Sources, 2013-2017

'000 tonnes of Oil Equivalent

	000 tonnes of On Equivalent					
	2013	2014	2015	2016	2017	
COALAND COKE	298.4	466.0	494.6	487.5	462.7	
LIQUID FUELS	3,707.9	3,937.9	4,738.5	5,044.2	5,170.6	
Imports of crude oil	567.4	0.0	0.0	0.0	0.0	
Net imports of petroleum	4,017.1	4,667.6	4,535.7	4,915.7	5,524.2	
Exports of petroleum fuels	19.2	46.4	4.8	12.5	6.4	
Stock changes and balancing item	258.6	683.3	-207.6	-141.0	347.2	
HYDRO, GEOTHERMAL, WIND AND						
CO-GENERATION ENERGY	540.4	563.6	696.7	738.4	672.9	
Total Local Energy Production1	536.2	550.0	691.6	731.0	653.2	
Local production of hydro power	377.1	293.3	297.8	340.5	238.8	
Local production of geothermal power	153.1	250.9	388.7	385.6	409.0	
Local production of Wind	1.3	1.5	5.1	4.8	5.3	
Local production of Co-generation	4.8	4.3	0.0	0.0	0.2	
Electricity Imports	4.2	13.6	5.1	7.4	19.7	
TOTALENERGY CONSUMPTION1	4,546.7	4,967.4	5,929.9	6,270.0	6,306.2	
LOCAL PRODUCTION AS PERCENTAGE OF						
TOTAL ENERGY CONSUMPTION	11.8	11.1	11.7	11.7	10.4	
PER CAPITA CONSUMPTION IN TERMS						
OF KILOGRAMME OF OIL						
EQUIVALENT	106.6	112.5	130.9	134.8	135.3	

<sup>\*</sup> Provisional

## **Developments in the Rural Electrification Energy Sector**

9.21. The number of customers connected under the rural electrification program expanded by 30.6 per cent to 1,269,510 in 2016/17 from 972,018 customers in 2015/16, mainly drawn from domestic consumers and small commercial categories. As a result, units of electricity sold increased by 2.2 per cent from 537 million units as at July 2016 to 549 million units in 2016/17. Consequently, revenue realized grew by 5.7 per cent from KSh 9,812 million in 2015/16 to KSh 10,376 million in 2016/17. Under the rural electrification program, a total of 1,319,490 customers were connected as at December 2017.

#### **Electricity Generation and Transmission**

9.22. The country's electricity generating capacity is currently being upgraded through various geothermal, wind and solar projects. It is expected to increase by 875.9 MW by 2023 from the current 2,339 MW. Among the projects expected to be commissioned in 2019 are the 50 MW Wellhead Modula plants, 158 MW Olkaria V and 70 MW Olkaria I Unit 6.

9.23. Three transmission line projects were completed in 2017 covering 629 kilometers. These are the Mombasa-Nairobi 400 kV line, Suswa-Isinya 400 kV and the Kisii-Awendo 132 kV line covering 482, 103 and 44 Km, respectively. Further, fourteen transmission line projects are currently ongoing and due for completion between 2018 and 2020 with ten of the projects expected to be completed in 2018. These are; Nairobi Ring Sub-Stations, Olkaria-Lessos in Kisumu, Loiyangalani in Suswa, Nanyuki-Isiolo, Lessos-Kabarnet line, Nanyuki-Nyahururu (Rumuruti) line, Olkaria-Narok line, Mwingi-Kitui-Wote-Sultan Hamud line, Turkwel-Ortum line in Kitale and Isinya-Namanga line. Sondu-Homa Bay-Ndhiwa-Awendo project,

<sup>&</sup>lt;sup>1</sup> Excludes wood fuel and charcoal

Eastern Electricity Highway Project (Ethiopia-Kenya Interconnector) and Kenya-Tanzania Interconnector projects are to be completed by 2019 while Lessos-Tororo line (Kenya-Uganda Interconnector) is expected to be commissioned in 2020.

#### **Oil Exploration Status**

9.24. Oil and gas exploration activities were concentrated in four blocks located in the Lokichar, Lotikipi and Kerio valley sub-basins of the Tertiary Rift Basin. New geological and geophysical data in open petroleum blocks were acquired with the sole purpose of enriching geo-scientific data to boost their attractiveness to new prospective investors in oil exploration. Similar studies were carried out in Lamu Basin along the coastal region of Kenya. The next block to be studied will be L14A, also situated onshore in Lamu Basin.

#### Construction of Mombasa - Nairobi New Pipeline for Refined Products

9.25. A new 20-inch diameter pipeline is being constructed from Mombasa to Nairobi which will have installed capacity of up to 1,000 cubic metres per hour on commissioning. The pipeline is designed to achieve a flow rate of 1,800 cubic metres per hour through the installation of four additional pumping stations. The new pipeline is expected to reduce pipeline maintenance costs, ensure security of supply for the country and the region, enhance safety and environment and remove petroleum trucks from the highway. This project also involves construction of four petroleum products tanks with a total capacity of 133,000 cubic metres. This will provide sufficient capacity for receipt of higher volumes of products expected from the new Mombasa Nairobi pipeline, increase storage capacity for ground fuels in Nairobi from the current 100,580 cubic metres to 233,580 cubic metres, provide capacity to build stocks in Nairobi for hinterland demand from 7 days to 17 days; enhance operational flexibility and evacuation of products at Kipevu Oil Storage Facility (KOSF) thereby creating more ullage at KOSF and reduce demurrage charges.

#### Mwananchi Gas Project

9.26. The Government intends to facilitate access of LPG to low income households. The project entails purchasing of 6 Kg cylinders with burners and 'meko' type grills. These cylinders will be purchased and distributed across the country with the objective of increasing LPG uptake. In addition, at least 40 mini LPG storage and filling plants (LPG skids) will be installed to be operated by women and youth. This project is expected to reduce average wood consumption as a source of energy in the country thereby boosting afforestation initiatives.

## **Manufacturing**

# Chapter

#### **Overview**

anufacturing sector real value added rose marginally by 0.2 per cent in 2017 compared to a growth of 2.7 per cent in 2016. The volume of output of the sector contracted by 1.1 per cent attributed mainly to decline in food products, beverages and tobacco, leather and related products, rubber and plastics and non-metallic minerals sub-sectors. The sector was negatively affected by uncertainities relating to general elections, rise in inflation, high production costs and competition from imported goods. The ban on production and use of plastic carrier bags also had adverse effects on the volume of output of the sector. The food sub-sector declined by 10.8 per cent mainly due to low availability of raw materials for some key agro-based industries resulting from unfavourable weather conditions in the year. The total approved credit to the sector rose to KSh 311.8 billion in 2017 from KSh 275.8 billion in 2016.

10.2. The Producer Price Index (PPI) which measures change in prices of goods sold by producers at basic prices rose by 4.6 per cent in 2017 to 118.89 from 113.67 in 2016. The main contributors to the increase in the index were manufacture of food products, electricity and manufacture of basic metals which increased by 9.3, 5.0 and 5.3 per cent, respectively. The index for other non-metallic mineral products dropped by 1.2 per cent in 2017.

10.3. Key performance indicators under the Export Processing Zone (EPZ) program which include number of gazetted zones, operating enterprises, employment and cumulative investment recorded growths in 2017. The number of local employees engaged by EPZ enterprises increased to 54,622 persons in 2017 from 52,947 persons in 2016. The cumulative capital investment increased to KSh 92.3 billion in 2017. However, total sales decreased in the period under review due to reduced exports.

**Formal** 10.4. Formal employment in the manufacturing sector rose at a slower rate of 0.8 per cent in employment 2017 compared to 1.8 per cent growth in the previous period. The sector's formal employment in the Sector was 303.3 thousand persons in 2017 and accounted for 11.4 per cent of the total formal employment.

### Manufacturing Output

10.5. Table 10.1 shows manufacturing sector value of output, intermediate consumption, value added and compensation of employees. The value of output grew by 4.0 per cent to KSh 2,204.8 billion while intermediate consumption increased by 6.1 per cent to KSh 1,556.4 billion in 2017. This resulted to a 0.8 per cent decrease in the value added to KSh 648.4 billion in the same period. Compensation of employees rose by 8.1 per cent in the period under review.

Table 10.1: Manufacturing Output, Compensation of Employees and Value Added, 2013-2017

Current Prices - KSh Million

	• • • • • • • • • • • • • • • • • • • •						
	Value of	Interm e diate	Value	Compensation			
YEAR	Output	Consumption	Added	of Employees			
2013	1,737,699	1,231,087	506,612	127,186			
2014	1,820,369	1,282,369	537,999	147,453			
2015	1,977,169	1,388,274	588,896	163,392			
2016	2,120,718	1,466,879	653,839	174,767			
2017*	2,204,805	1,556,408	648,397	188,893			

<sup>\*</sup> Provisional.

# **Indices**

Quantum 10.6. Details of the quantum indices and the production of some selected commodities from 2013 to 2017 are presented in Tables 10.2, 10.3 and 10.4. Production volumes for several sub-sectors in manufacturing contracted, leading to an overall decline of 1.1 per cent in 2017. The low performance was on account of low production of sugar, dairy products, leather and related products, other non-metallic mineral products, wood and products of wood, motor vehicle, trailers and semi-trailers and food products not elsewhere classified. However, cocoa, chocolate and sugar confectionery, machinery and equipment n.e.c, grain mill products, bakery products, wearing apparel, animal feed, basic metals, paper and paper products sub-sectors remained resilient during the review period and registered growths in the volumes of output.

Table 10.2: Quantum Indices of Manufacturing Production, 2013-2017

Base: 2009=100

				Base:	2009=100
Industry Divisions and Groups Descriptions	2013	2014	2015	2016	2017*
Meat and Meat Products	109.4	108.3	118.3	131.2	139.2
Processing and preserving of fish	85.0	86.7	67.8	61.0	59.0
Prepared and Preserved Fruits and Vegetables	120.0	100.9	103.6	112.8	111.1
Animal and Vegetable Fats and Oils	111.4	128.2	133.6	133.8	136.8
Dairy Products	147.4	156.8	169.7	174.1	153.0
Grain Mill Products	137.4	148.5	160.8	165.9	179.7
Bakery Products	141.7	152.3	164.6	162.4	175.5
Sugar	109.5	108.2	115.3	116.5	68.8
Cocoa, Chocolate and Sugar Confectionery	131.6	137.4	167.4	180.3	202.4
Food Products not elsewhere classified		136.2	121.5	139.4	129.3
Animal Feed	131.0	132.2	138.2	141.3	153.5
Food Products	126.3	132.5	134.7	143.2	127.8
Beverages Products	112.5	110.8	138.7	146.6	146.1
Tobacco Products	119.6	144.0	137.6	115.4	110.3
Beverages and Tobacco Products	113.7	116.5	138.5	141.2	139.9
T ex tiles	112.1	113.9	129.9	120.6	118.5
Wearing Apparel	154.4	172.9	196.8	230.8	243.8
Leather and Related Products	135.4	118.6	100.0	111.5	98.1
Wood and Products of Wood	113.9	132.4	138.5	119.2	103.5
Paper and Paper Products	144.9	140.1	140.3	153.6	160.1
Printing and Production of Recorded Media	102.3	99.3	99.2	98.0	97.7
Refined Petroleum Products	47.0	0.0	0.0	0.0	0.0
Chemical and Chemical Products	112.6	125.3	134.6	134.3	136.7
Pharmaceutical Products	250.0	295.9	360.8	435.3	430.6
Rubber Products	100.2	93.1	78.4	59.3	0.0
Plastic Products	114.1	123.6	135.1	146.5	141.0
Rubber and Plastic Products	111.8	118.6	125.9	132.4	118.1
Other Non-metallic Mineral Products	135.1	156.1	169.9	179.7	165.5
Basic Metals	149.8	152.7	150.9	171.9	178.8
Fabricated Metal Products	154.3	175.1	163.8	130.6	131.5
Electrical Equipment	133.3	145.1	154.6	159.9	160.0
Machinery and Equipment nec	90.8	77.1	42.6	31.0	34.5
Motor Vehicle, Trailers and Semi Trailers	131.0	161.4	171.0	116.4	98.2
Manufacture of furniture	183.8	211.0	258.5	258.5	247.3
Other Manufacturing	139.5	174.6	210.1	204.1	204.4
Repair and Installation of Machinery and Equipment	110.2	117.8	122.0	128.0	130.5
Overall	130.6	139.0	146.0	152.6	150.9

<sup>\*</sup> Provisional

Table 10.3: Percentage change in Quantum Indices of Manufacturing Production, 2013-2017

Industry Divisions and Groups Descriptions	2013	2014	2015	2016	2017*
Meat and Meat Products	0.2	-1.0	9.3	10.9	6.1
Processing and preserving of fish	-3.2	2.0	-21.8	-10.0	-3.3
Prepared and Preserved Fruits and Vegetables	16.7	-15.9	2.7	8.8	-1.5
Animal and Vegetable Fats and Oils	12.7	15.0	4.3	0.1	2.2
Dairy Products	1.7	6.4	8.2	2.6	-12.1
Grain Mill Products	5.5	8.1	8.3	3.2	8.3
Bakery Products	6.0	7.5	8.1	-1.3	8.1
Sugar	21.5	-1.3	6.6	1.0	-41.0
Cocoa, Chocolate and Sugar Confectionery	-1.4	4.4	21.8	7.7	12.3
Food Products not elsewhere classified	10.7	5.1	-10.8	14.7	-7.2
Animal Feed	6.8	1.0	4.5	2.2	8.7
Food Products	8.3	5.0	1.6	6.3	-10.8
Bev erages	-8.4	-1.5	25.2	5.7	-0.3
Tobacco Products	-6.8	20.5	-4.4	-16.2	-4.4
Beverages and Tobacco Products	-8.1	2.5	18.9	1.9	-0.9
Textiles	-4.7	1.6	14.1	-7.1	-1.7
Wearing Apparel	9.7	12.0	13.8	17.3	5.6
Leather and Related Products	3.5	-12.4	-15.7	11.4	-12.0
Wood and Products of Wood	6.5	16.2	4.6	-13.9	-13.2
Paper and Paper Products	7.2	-3.3	0.2	9.4	4.2
Printing and Production of Recorded Media	2.1	-2.9	-0.1	-1.3	-0.3
Refined Petroleum Products	-48.6	-100.0	0.0	0.0	0.0
Chemical and Chemical Products	-3.0	11.2	7.5	-0.2	1.8
Pharmaceutical Products	32.0	18.3	21.9	20.6	-1.1
Rubber Products	22.1	-7.1	-15.8	-24.4	0.0
Plastic Products	-2.1	8.4	9.3	8.4	-3.8
Rubber and Plastic Products	0.8	6.1	6.1	5.1	-10.8
Other Non-metallic Mineral Products	7.8	15.5	8.9	5.8	-7.9
Basic Metals	20.7	1.9	-1.2	13.9	4.0
Fabricated Metal Products	17.2	13.4	-6.4	-20.2	0.6
Electrical Equipment	6.8	8.8	6.5	3.5	0.0
Machinery and Equipment nec	1.2	-15.1	-44.7	-27.1	11.0
Motor Vehicle, Trailers and Semi Trailers	5.9	23.1	6.0	-31.9	-15.6
Manufacture of furniture	12.0	14.8	22.5	0.0	-4.4
Other Manufacturing	3.5	25.1	20.4	-2.9	0.1
Repair and Installation of Machinery and Equipment	3.2	6.9	3.6	4.9	2.0
Overall	6.9	6.4	5.0	4.6	-1.1

<sup>\*</sup> Provisional

10.7. Overall, manufacture of food products declined by 10.8 per cent in 2017 on account of shortfalls in the domestic supply of some key raw materials such as sugarcane, tea, milk and rice paddy. Production of sugar declined significantly by 41.2 per cent from 639.7 thousand tonnes in 2016 to 376.1 thousand tonnes in 2017 mainly attributed to low cane deliveries by farmers. In addition, the dairy sub-sector production volumes contracted by 12.1 per cent in 2017. The quantity of processed milk dropped from 448.5 million litres in 2016 to 383.2 million litres in 2017. This was mainly due to reduced milk intake by the processors. Likewise, production of yoghurt and other fermented milk dropped by 3.5 per cent in the same period. Other food products not elsewhere classified reduced by 7.2 per cent in 2017. This decline was mainly due to a drop in the quantities of processed tea and semi processed coffee. Production of tea dropped by 7.0 per cent from 473.0 thousand tonnes in 2016 to 439.8 thousand tonnes in 2017. Semi-processed coffee dropped by 15.1 per cent to 33.7 thousand tonnes in 2017. The quantity of milled rice dropped by 20.0 per cent while prepared and preserved fruits and

vegetables dropped by 1.5 per cent over the same period. Fish processing declined by 3.3 per cent in the year under review.

10.8. Grain milling sub-sector recorded a growth of 8.3 per cent in 2017. The year under review saw the introduction of duty-free imports of maize by flour millers. This resulted to a 9.8 per cent increase in production of maize flour to 669.4 thousand tonnes in 2017. Production of wheat flour by formal establishments also rose by 9.2 per cent to 1,237.0 thousand tonnes in 2017 from 1,133.1 thousand tonnes in 2016. Manufacture of animal feeds, which are by-products of grain milling, went up by 8.7 per cent during the year under review.

10.9. The quantity of bakery products increased by 8.1 per cent in 2017. The growth was attributed to the 8.2 per cent and 7.4 per cent increase in the quantities of bread and biscuits produced, respectively in the year under review. Production of cocoa, chocolate and sugar confectionery increased by 12.3 per cent.

10.10. Meat and meat products sub-sector recorded a 6.1 per cent growth in 2017 mainly driven by a 10.2 per cent increase in the quantity of sausages processed. Manufacture of vegetable fats and oils went up by 2.2 per cent in 2017.

Table 10.4: Production of Selected Commodities 2013-2017

Com m odity	Unit	2013	2014	2015	2016	2017*
Processed Milk	Million litres	350.4	419.1	437.5	448.5	383.2
Wheat flour <sup>1</sup>	000 Tonnes	884.2	988.7	1,103.8	1,133.1	1,237.0
Maize flour <sup>1</sup>	,,	562.5	571.2	570.7	609.7	669.4
Biscuits	"	12.3	10.6	12.2	12.1	13.0
Cooking oil	,,	162.8	186.1	208.2	208.3	215.0
Edible fats and magarine	"	235.6	265.2	255.6	256.1	258.8
Sugar	,,	600.2	592.7	635.7	639.7	376.1
Coffee - milled	,,	39.8	49.5	41.6	39.7	33.7
Tea	"	432.4	445.1	399.1	473.0	439.8
Soft drinks	Million litres	407.4	462.1	551.4	505.1	557.8
Blankets	000 Number	2,048.4	2,339.1	2,873.7	2,930.2	2,670.7
Assembled vehicles	Number	7,026.0	9,514.0	10,181.0	6,541.0	4,877.0
Galvanized sheets	000 Tonnes	305.2	284.5	256.8	268.7	262.8

<sup>\*</sup> Provisional

10.11. The beverages and tobacco sub-sector declined by 0.9 per cent. Production of beverages declined marginally on account of a 5.2 per cent drop in the quantity of beer produced in 2017. In addition, tobacco products dropped by 4.4 per cent as a result of a 4.1 per cent decline in production of cigarettes in 2017. Production of carbonated soft drinks (soda) and spirits went up by 10.4 per cent and 8.9 per cent, respectively during the year under review.

10.12. The textile sub-sector recorded a decline of 1.7 per cent mainly attributed to a drop of 8.9 per cent and 2.2 per cent in the production of blankets; and twine, cordage and rope, respectively in 2017. However, production of woven fabrics and textile yarn; and threads increased by 11.1 per cent and 8.8 per cent, respectively. During the same period, production of wearing apparel increased by 5.6 per cent due to a growth of 10.4 per cent in the production of T-shirts.

<sup>&</sup>lt;sup>1</sup>Produced by formal Millers

- 10.13. Leather and related products recorded a decline of 12.0 per cent during the review period. This was attributed to reduced production of finished leather and shoes with uppers of leather, which decreased by 13.3 per cent and 8.2 per cent, respectively.
- 10.14. Manufacture of wood and products of wood dropped further by 13.2 per cent in 2017. The production of plywood and ceiling board decreased by 18.1 per cent and 4.5 per cent, respectively in 2017. The paper and paper product sub-sector registered a 4.2 per cent growth in 2017. This growth was mainly driven by an increase of 10.7 per cent and 5.5 per cent in the production of toilet paper and exercise books, respectively.
- 10.15. The chemical and chemical products sub-sector grew marginally in 2017. Production of paints went up by 2.1 per cent while that of soaps, detergent and shoe polish increased by 6.2, 4.8 and 1.9 per cent, respectively in the period under review. However, manufacture of vanishes dropped by 6.5 per cent. Production of industrial gases dropped by 18.8 per cent in the review period.
- 10.16. Production of pharmaceutical products decreased by 1.1 per cent in 2017. This was on account of a 7.7 per cent drop in production of capsules. On the contrary, production of tablets and syrup rose by 6.9 per cent and 1.6 per cent, respectively over the same period.
- 10.17. Output volumes of plastic products declined by 3.8 per cent in 2017 mainly due to a decrease of 21.8 per cent in the production of plastic bags attributed to a ban on production of plastic carrier bags in August 2017. Production of plastic pipes decreased by 2.8 per cent in 2017. However, production of plastic tanks increased by 9.4 per cent in the period under review.
- 10.18. The production of basic metals increased by 4.0 per cent in 2017 attributable to an increase of 12.0 per cent in the volumes of iron bars and rods produced. However, there was a 2.2 per cent decline in the output volumes of corrugated iron sheets to 262.8 thousand tonnes. In the same period, fabricated metal products, which include aluminum circles/sufurias, metal structures and nails increased by 0.6 per cent. Production of metal structures increased by 4.5 per cent while that of nails increased by 2.4 per cent during the same period. The quantity of sufurias produced also declined by 9.1 per cent in 2017.
- 10.20. Production of electrical equipment in 2017 remained largely unchanged compared to the volumes recorded in 2016. Manufacture of primary batteries registered a 25.8 per cent growth in 2017. However, there was a 20.4 per cent decline in manufacture of cables over the same period.
- 10.21. Motor vehicles, trailer and semi-trailers production registered a drop of 16.4 per cent in 2017. This was mainly attributed to a decline in the number of assembled vehicles which dropped by 25.4 per cent and a 4.9 per cent reduction in trailer and semi-trailer body making.
- 10.22. Manufacture of furniture registered a decline of 4.4 per cent in 2017. This was as a result of a drop in the production of mattresses, which went down by 6.3 per cent. Production of other non-metallic minerals registered a decline of 7.9 per cent in 2017 due to a drop in the production of both cement and glass bottles.

**Cement** 10.23. Cement production decreased by 8.2 per cent from 6,715.4 thousand tonnes in 2016 **Production** to 6,162.6 thousand tonnes in 2017 as shown in Table 10.5. Similarly, cement consumption and and stocks decreased from 6,310.1 thousand tonnes in 2016 to 5,788.9 thousand tonnes in Utilization 2017 owing to reduced demand in the construction sector. Total exports of cement contracted further by 7.6 per cent in 2017 after recording a drop of 38.3 per cent in 2016. Imports decreased marginally from 15.1 thousand tonnes in 2016 to 14.7 thousand tonnes in 2017 while exports of cement to Uganda and Tanzania dropped from 325.0 thousand tonnes in 2016 to 299.3 thousand tonnes in 2017.

Table 10.5: Cement Production and Utilization, 2013-2017

ć	000	Tonnes	

				Exports to	
Year	Production	Imports	Consumption and Stocks	Uganda and Tanzania	All Other Countries
2013	5,059.1	34.4	4,266.5	594.0	233.9
2014	5,882.5	36.4	5,196.7	547.7	175.2
2015	6,352.9	37.6	5,708.8	487.4	194.2
2016	6,715.4	15.1	6,310.1	325.0	95.4
2017*	6,162.6	14.7	5,788.9	299.3	89.1

Provisional.

### **Producer Prices**

10.24. The overall inflation as measured by Producer Price Index (PPI) increased by 4.6 per cent to 118.89 in 2017, as shown in Table 10.6. The main contributors to the increase were manufacture of food products, electricity and manufacture of basic metals, which increased by 9.3, 5.0 and 5.3 per cent, respectively in 2017. In the manufacture of food products, the highest increase was the producer prices of sugar and maize flour. During the review period, prices of electricity increased mainly due to a rise in fuel adjustment costs.

Table 10.6: Producer Price Indices, 2013 to 2017

June 2011 = 100 2017 Divis io n De s cription We ig h ts 2013 2014 2015 2016 Change 08 Mining and Quarrying ..... 123.09 131.67 138.10 132.58 1.60 111.40 -4.0 10 Manufacture of food products..... 109.84 107.52 124.11 34.24 114.17 113.52 9.3 Manufacture of beverages..... 11 111.16 124.25 132.36 136.83 140.91 3.0 6.54 12 Manufacture of tobacco products..... 117.31 117.96 125.10 125.43 1.38 121.74 0.3 13 Manufacture of textiles...... 108.19 109.96 125.97 2.29 122.72 126.70 -0.6 14 Manufacture of wearing apparel ...... 100.27 102.35 2.91 99.88 101.64 102.08 0.3 Manufacture of leather and related products ...... 15 102.19 104.40 0.90 101.79 103.77 104.23 0.2 Manufacture of wood and products of wood and cork 16 except furniture ...... 2.19 104.69 105.40 106.91 113.60 117.56 3.5 17 Manufacture of paper and paper products ..... 102.28 106.15 112.55 115.39 3.15 109.64 2.5 18 Printing and reproduction of recorded media..... 102.33 104.66 5.66 104.66 104.66 104.66 0.0 19 Manufacture of lubricating petroleum oils ..... 132.83 0.01 117.13 114.76 114.76 114.76 0.0 Manufacture of chemicals and chemical products...... 20 123.12 5.97 106.67 113.24 119.61 118.35 4.0 22 Manufacture of rubber and plastics products..... 5.47 105.07 107.66 110.01 110.27 109.80 -0.4 23 Manufacture of other non-metallic mineral products.... 4.32 113.59 116.00 117.36 113.06 111.71 -1.2 Manufacture of basic metals ..... 24 6.51 98.69 97.11 92.96 97.90 93.68 5.3 Manufacture of fabricated metal products except machinery and 25 3.31 96.62 94.35 92.04 94.73 2.9 94.11 29 Manufacture of motor vehicles..... 117.28 122.95 123.76 1.20 112.60 121.17 0.7 31 Manufacture of Furniture..... 1.83 102.45 102.17 132.88 131.29 134.37 2.3 33 Repair and installation of machinery and equipment ... 1.42 99.78 100.16 102.92 103.76 104.36 0.6 Electricity ..... 35 8.63 98.34 118.41 116.52 116.21 122.07 5.0 36 Water..... 0.46 114.44 124.54 131.68 143.63 154.56 7.6 100.00 105.96 109.17 113.67 118.89 113.44 Overall percentage change 0.50 3.03 3.91 0.20 4.59

10.25. The average producer prices of selected products are shown in Table 10.7. These prices exclude Value Added Tax (VAT) and transportation costs. During the year under review, the producer prices for a tonne of sugar increased by 35.4 per cent from KSh 71,354 in 2016 to KSh 96,606 in 2017. Similarly, the producer prices of a bale of maize flour increased by 7.3 per cent from KSh 1,117 in 2016 to KSh 1,199 in 2017. However, the price of a tonne of cement reduced by 1.2 per cent during the review period.

**Table 10.7 Average Producer Prices of Selected Products** 

						KSh/Unit
Product	Units of Measure	2013	2014	2015	2016	2017
Vegetable oils	. 20 Litres	4,251.4	4,006.7	4,090.8	3,908.7	3,950.6
Vegetable fats	. 20 Kg	4,173.3	4,105.1	4,019.8	3,850.4	3,795.2
Pasteurized milk	Crate 18 packets each 500 MI	625.5	623.8	678.9	672.3	696.9
Sugar	One Tonne	81,547.0	67,626.2	65,493.7	71,353.9	96,606.3
Wheat flour	12 packets each 2Kg	1,462.2	1,510.7	1,421.0	1,303.6	1,317.4
Maize Flour	12 packets each 2Kg	1,165.0	1,235.6	1,110.3	1,116.9	1,199.1
Gloss paints	4 Litres	1,816.1	1,909.5	2,243.3	2,135.7	2,263.4
Ba lla s t	One Tonne	927.5	969.9	1,008.4	1,008.4	1,009.5
Plastic water tank	. 5000 litre capacity	31,920.0	31,650.2	33,604.9	32,531.9	32,779.1
Ce me nt	One Tonne	12,428.2	12,691.8	12,841.1	12,370.3	12,223.2
S te el bars	. 1 Kg	78.8	77.7	77.0	77.1	80.7
Ordinary nails	50 kg	4,075.0	4,592.5	4,265.2	3,853.5	4,021.4

# Credit to Manufacturing Sector

10.26. The number of projects approved in the manufacturing sector by financial institutions and commercial banks from 2013 to 2017 are shown in Table 10.8. The total loans advanced rose from KSh 275.8 billion in 2016 to KSh 311.8 billion in 2017. The value of approved credit by industrial financial institutions increased from KSh 1.1 billion in 2016 to KSh 1.3 billion in 2017. The number of manufacturing projects approved decreased from 338 in 2016 to 293 in 2017, mainly due to a decline in the number of projects within the micro and small enterprises financed by Kenya Industrial Estate (KIE).

10.27. Industrial Development Bank (IDB) Limited approved projects worth KSh 200.1 million in 2017 compared to KSh 129.8 million in 2016. The funding was for expansion of three existing projects in the manufacture of concrete poles, steel mills and textiles activities.

10.28. Development Bank of Kenya (DBK) approved three projects for manufacturing of cement products, plastics pipes and printing in 2017, which were worth KSh 130.5 million.

10.29. Industrial and Commercial Development Corporation (ICDC) approved credit worth KSh 791 million for seven manufacturing projects in 2017. Four projects were startups while three were expansion to existing projects mainly in food and beverage sub-sectors.

Table 10.8: Manufacturing Projects Approved by Financial Institutions and Other Commercial Banks, 2013 -2017

	Number of Projects			Loans Advanced (KSh Million)						
Institution	2013	2014	2015	2016	2017*	2013	2014	2015	2016	2017*
IDB Capital limited	5	3	5	3	3	339.1	74.2	252.0	129.8	200.1
Development Bank of Kenya	4	2	6	6	3	230.0	66.6	341.0	292.3	130.5
Kenya Industrial Estates Limited	257	543	233	325	280	104.5	194.3	120.8	165.3	181.0
Industrial and Commercial Development Corporation	2	1	7	4	7	431.6	234.0	421.2	495.6	791.0
Sub - total	268	549	251	338	293	1,105.2	569.1	1,135.0	1,083.0	1,302.6
All other commercial banks1						181,457.1	237,355.8	289,727.8	274,725.4	310,502.9
TO TAL	268	549	251	338	293	182,562.3	237,924.9	290,862.8	275,808.3	311,805.4

<sup>\*</sup> Provisional

10.30. The Kenya Industrial Estates plays a major role in promoting local entrepreneurship by financing and developing small scale and micro enterprises. The number of manufacturing projects approved decreased from 325 in 2016 to 280 in 2017 as shown in Table 10.9. However, the loans advanced for these projects rose by 9.5 per cent to KSh 181.0 million during the review period. Manufacturers of food products remained the main beneficiaries of this funding accounting for 29.5 per cent of the total loans advanced in 2017.

<sup>1</sup> Source: Central Bank of Kenya (excludes DBK).

Table 10.9: Industrial Projects Approved by Kenya Industrial Estates, 2013-2017

	Num ber of Projects				Advance	l Loans (K	(Sh '000)			
Des criptions	2013	2014	2015	2016	2017*	2013	2014	2015	2016	2017*
Manufacture of food products	83	193	75	107	93	36,545	64,855	28,092	66,133	53,391
Manufacture of beverages	3	3	8	2	-	1,747	6,791	230	690	-
Manufacture of animal feeds	-	2	2	-	-	-	1,500	3,500	-	-
Manufacture of food products nec	-	2	12	1	-	-	3,327	4,370	70	-
Manufacture of textiles	4	3	37	65	42	1,360	1,900	12,813	19,958	19,200
Manufacture of wearing Apparel	46	139	1	1	1	18,319	29,891	500	1,700	1,500
Manufacture of leather and related products	2	1	2	2	11	550	840	1,000	5,350	765
Manufacture of wood and Products of wood and cork except furniture	7	17	5	22	39	3,905	9,693	3,355	12,621	27,782
Manufacture of paper and paper products	-	1	-	-	-	-	10,000	-	-	-
Printing and reproduction of recorded media	13	20		16	10	6,400	10,700	-	9,836	26,858
Manufacture of Chemicals and chemical products	-	-	2	3	3	-	-	18,059	1,115	6,000
Manufacture of other non-metallic mineral products .	7	7	7	5	7	1,720	1,510	7,630	1,700	4,490
manufacture of fabricated metal products except machinery and equipment	53	105	53	81	66	20,085	35,005	25,295	39,260	32,669
Manufacture of furniture	34	48	27	13	-	12,470	17,606	13,690	3,810	-
Other manufacturing n.e.c.	3	2	2	6	-	1,400	700	2,315	2,725	-
Repair and installation of machinery and equipment	2	-	-	1	8	350	-	-	325	8,300
TO TAL	257	543	233	325	280	104,501	194,316	120,849	165,292	180,954

Source: Kenya Industrial Estates Ltd

10.31. The Kenya Investment Authority registered 40 manufacturing projects in 2017, which was a decline from 43 projects registered in 2016 as shown in Table 10.10. The value of loans advanced to finance the projects increased to KSh 26.6 billion in 2017 from KSh 11.1 billion in 2016.

Table 10.10: Industrial Projects<sup>1</sup> Registered by Kenya Investments Authority, 2013-2017

	2013	2014	2015	2016	2017*
Number of Projects	42	19	48	43	40
Loans advanced (KSh billion)	42.1	7.4	8.8	11.1	26.6

Source: Kenya Investment Authority

 $<sup>^*</sup>$  Provisional

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup> Figures presented are not for all projects since the Investment Promotion Act, 2004 does not mandate all investors to register with the Authority

**Export Processing Zones** 

10.32. Key performance indicators under the EPZ program, which include the number of gazetted zones, operating enterprises, employment, cumulative capital investment; and local purchase of goods and services recorded growths in 2017 as shown in Table 10.11.

Table 10.11: Selected EPZ Performance Indicators, 2013-2017

	Unit	2013	2014	2015	2016	2017*
Gazetted Zones	Number	50	52	56	65	71
Enterprises Operating	n .	85	86	89	111	131
Employment - Locals	"	39,961	46,221	50,302	52,947	54,622
- Expatriates	"	472	517	597	618	717
Total Workers	"	40,433	46,738	50,899	53,565	55,339
Export	KSh Million	44,427	51,377	60,879	64,151	60,377
Domestic Sales <sup>1</sup>	"	5,867	5,815	4,018	4,418	6,512
Total Sales	"	50,294	57,192	64,897	68,569	66,889
Imports	"	27,413	29,461	31,370	30,160	29,738
Local Purchases of Goods and Services	п	7,721	8,170	8,815	10,742	10,945
Capital Investment	"	48,004	44,218	48,128	88,977	92,289

Source: Export Processing Zones Authority (EPZA)

10.33. The number of gazetted zones increased to 71 in 2017 from 65 in 2016. The gazetted zones were distributed as follows: 24 in Mombasa, 10 in Kilifi, 7 in Nairobi, 6 in Machakos, 4 in Bomet, Kiambu, Nakuru and Kwale each had 3 zones while Kajiado, Taita Taveta, Murang'a, Elgeyo/ Marakwet, Uasin Gishu, Laikipia, Nandi, Meru, Embu, Narok and Homa bay counties each had one gazette zone. In the period under review, five zones were public while the rest were owned and operated privately. The number of operating enterprises rose notably from 111 in 2016 to 131 in 2017.

10.34. Total sales by EPZ enterprises dropped from KSh 68.6 billion in 2016 to KSh 66.9 billion in 2017 mainly due to a 5.9 per cent decrease in exports to KSh 60.4 billion in 2017. The decline was mainly attributed to drought which affected supply of raw materials to agro processing industries, global competition and anxiety over the 2017 general elections. However, domestic sales rose to KSh 6.5 billion in 2017 from KSh 4.4 billion in 2016. Local purchases increased marginally from KSh 10.7 billion to KSh 10.9 billion during the same period. Imports decreased further by 1.4 per cent to KSh 29.7 billion in 2017.

10.35 Local employees engaged by EPZ enterprises increased from 52,947 persons in 2016 to 54,622 persons in 2017. Cumulative capital investments, which include equipment, machinery and zone infrastructure, has exhibited an upward trend since 2015 and stood at KSh 92.3 billion in 2017.

<sup>\*</sup> Provisiona

<sup>&</sup>lt;sup>1</sup> Includes sales to duty free shops and agencies

## African Growth and Opportunity

10.36. Table 10.12 shows selected indicators for the EPZ garment/apparel sub-sector under African Growth and Opportunity Act (AGOA). AGOA is an initiative of the United States of America (USA) meant to increase exports especially of apparel from accredited Sub-Saharan Africa (SSA) countries. Direct employment generated by the sub-sector increased by 3.5 per cent to 43,987 persons in 2017. The value of exports reduced for a second consecutive year from KSh 34.4 billion in 2016 to KSh 32.8 billion in 2017. Similarly, capital investment reduced to KSh 14.1 billion in 2017.

Table 10.12: Selected EPZ Garment / Apparel Performance Indicators under AGOA, 2013-2017

	2013	2014	2015	2016	2017*	Percentage Change
Number of Enterprises	22	21	21	21	21	0.0
Number of Employees	32,932	37,785	41,597	42,496	43,987	3.5
Capital Investment (KSh Million)	13,465	15,051	15,708	15,300	14,096	-7.9
Exports (KSh Million)	24,246	30,244	35,224	34,410	32,761	-4.8

Source: Export Processing Zones Authority

# **Developments** in the Sector

10.37. The Government has identified manufacturing as one of its big four-agenda and has set targets for growth and employment creation in the sector. The plan has emphasized Government focus to boost fish processing, agro-processing, leather and textiles sub-sectors. The budget for the 2017/18 year has several incentives to attract foreign investments and protect locally manufactured goods. Towards this, the Government allocated resources for; modernization of some key industries, development of regional specific industrial clusters, development of basic infrastructure in selected Special Economic Zones (SEZ) and development of basic infrastructure for leather industrial park and a common manufacturing facility for leather among others. In addition, the commencement of the Standard Gauge Railway freight services is expected to ease manufacturers' burden by lowering domestic transport costs. The Government is also supporting the sector by subsidizing electricity supplied to manufacturers and increasing supply of renewable energy. The Government's directive of sourcing domestically manufactured shoes and uniforms for the disciplined forces is expected to spur growth of the textiles and leather sub-sectors.

<sup>\*</sup> Provisional

## **Building and Construction**

# Chapter 11

#### **Overview**

mproved infrastructural networks are key to the economy since they enhance connective and mobility, which in turn promotes trade and investment by reducing the cost of doing business. In 2017, the construction sector registered a growth of 8.6 per cent compart to a 9.8 per cent growth in 2016. During the review period, the first phase of construction the single-track Standard Gauge Rail (SGR) from Mombasa to Nairobi was completed at the first commuter train launched on May 2017. The construction work for the second phase of SGR that runs 120 kilometres from Nairobi to Naivasha commenced in September 2017. The other major projects that were ongoing in the review period were; the expansion a modernisation of the Outer Ring road, expansion of Ngong road, construction of the Keny Western bypass, Dongo Kundu bypass and Nuno-Modogashe road.

11.2. The overall expenditure on roads is expected to increase from KSh 173.7 billion 2016/17 to KSh 198.4 billion in 2017/18. This growth is mainly attributed to increas development expenditure on roads which is expected to grow by 19.2 per cent to KSh 134 billion in 2017/18. Disbursement of funds by Kenya Roads Board (KRB) to various roagencies and County governments is expected to increase from KSh 60.5 billion in 2016/to KSh 63.5 billion in 2017/18. Loans and advances from commercial banks to building a construction sector increased to KSh 109.9 billion in 2017 from KSh 104.8 billion in 2017 reflecting a 4.9 per cent increase.

11.3. The value of new private buildings issued with certificate of occupancy by Nairobi C County (NCC) increased by 10.2 per cent from KSh 77.7 billion in 2016 to KSh 85.6 billi in 2017. The value of public buildings completed by the State Department for Housing a National Housing Corporation (NHC) decreased from KSh 3.8 billion in 2016 to KSh 2 billion in 2017. In 2016/17, the approved expenditure for housing was KSh 17.5 billion wh actual expenditure stood at KSh 16.5 billion, representing 94.3 per cent utilization. The val of building plans approved in NCC decreased from KSh 308.4 million in 2016 to KSh 240 million in 2017. During the same period, cement consumption decreased by 8.2 per cent 5,788.9 thousand tonnes.

Key Economic Indicators 11.4. Selected key economic indicators in the building and construction sector from 2013 2017 are presented in Table 11.1. The index of Government expenditure on roads increas from 462.8 in 2016 to 526.1 in 2017, due to major road projects undertaken during the review period. Further, the index of reported private building works completed in Nairobi C County rose from 409.3 in 2016 to 443.1 in 2017. On the other hand, the index of report public building works completed in major towns registered a decrease from 69.2 in 2016 59.4 in 2017. During the review period, cement consumption decreased by 8.2 per cent 5,788.9 thousand tonnes in 2017. Loans and advances to the sector increased by 4.8 per ce from KSh 104.8 billion in 2016 to KSh 109.9 billion in 2017.

Table 11.1: Selected Key Economic Indicators in Building and Construction, 2013 - 2017

					1982=10
Indicator	2013	2014	2015	2016	2017*
In dex of reported private building works	221.2	241.4	2/0.4	400.2	4.42
completed in Nairobi City County <sup>1</sup>	321.3	341.4	369.4	409.3	443
Index of reported public building works	102 =	1071	110 (	(0.0	
completed in major towns <sup>1</sup>	103.7	106.1	112.6	69.2	59
Index of government expenditure on roads <sup>1+</sup>	313.9	263.4	350.3	462.8	526
Index of Employment <sup>1</sup>	197.8	220.0	245.0	269.9	27'
Cement consumption ('000 tonnes)	4,266.5	5,196.7	5,708.8	6,310.1	5,78
Private Employment ('000 persons)	112.0	125.3	140.2	155.0	159
Public Employment ('000 persons)	7.5	7.6	7.9	8.0	
Loans and Advances from Commercial	70.770.0	00.406.0	107.042.6	104 025 0	100.00
Banks to the sector (KSh Mn)	70,770.0	80,406.0	107,842.6	104,825.8	109,882

<sup>\*</sup> Provisional.

11.5. The percentage changes in the cost of building and construction materials and labor from 2015 to 2017 are presented in Table 11.2. The cost of materials increased by 3.0 per ce in 2017 compared to a 1.8 per cent growth in 2016. The highest growth in the cost of building materials was in the residential buildings which increased by 3.8 per cent during the review period. The cost of labour in the building and construction sector registered a slower grow of 6.6 per cent in 2017 compared to a growth of 12.3 per cent in 2016. The increase in the cost of labour was highest in the construction of building sub-sector (10.5%) and lowest in circumineering sub-sector (3.3%).

Table 11.2: Percentage Changes in Construction Cost of Materials and Labour, 2015 – 2017

Materials	2015	2016	2017*
Residential Buildings	2.6	1.9	3.8
Non-Residential Buildings	2.3	1.6	1.8
All Buildings	2.5	1.8	2.9
Other Construction <sup>1</sup>	-3.0	1.8	3.2
Total Cost Index	0.9	1.8	3.0
Labour			
Consruction of buildings	25.5	12.5	10.5
Civil engineering	17.9	6.2	3.3
Specilaized Construction activities	25.7	12.2	3.5
Total Labour Cost	25.5	12.3	6.6

<sup>\*</sup> Provisional.

11.6. The average monthly basic wages for unskilled, semi-skilled and skilled workers in the building and construction industry for the last five years are shown in Table 11.3. Month basic wages for the unskilled and semi-skilled workers increased by 6.6 per cent each, who those for skilled workers rose by 6.5 per cent in 2017. The rate of growth in wages for all the three categories of workers was slower compared to the growths recorded in 2016.

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 $<sup>^1</sup>$ The index of roads, reported private and public building works completed has been deflated using construction input price indices.

<sup>&</sup>lt;sup>1</sup>Refers mainly to road construction and includes bridges and dams

Table 11.3: Monthly Average Basic Wages in Building and Construction Industry, 2013 - 2017

KSh

Year	Unskilled	Semi-Skilled	Skilled
2013	15,811	21,778	31,263
2014	16,994	23,500	33,832
2015	18,771	25,868	37,127
2016	20,174	27,902	40,187
2017	21,497	29,757	42,794

Source: Ministry of Labour, Social Security and Services

11.7. Table 11.4 shows the value of building plans approved and completed buildings issu with certificate of occupancy in NCC for the period 2013 to 2017. The value of building pla approved decreased by 23.2 per cent to KSh 240.8 billion in 2017. The value of complet buildings issued with certificate of occupancy in NCC increased by 10.1 per cent to KSh 85 billion in 2017.

Table 11.4: Value of Private Building Plans Approved and Building Works Completed in Nairobi City County, 2013 - 2017

KSh Milli

V	Building Plans	BuildingWorks
Year	Approved	Completed <sup>1</sup>
2013	190,646.5	52,276.0
2014	205,423.9	59,519.7
2015	215,211.0	70,867.4
2016	308,361.4	77,749.7
2017*	240,752.0	85,588.3

Source: Nairobi City County

11.8. Table 11.5 presents the number of completed private buildings reported to Nairobi C County and completed public buildings reported by State Department of Housing and NH The total number of private buildings issued with certificate of occupancy increased by 9.7 pcent from 10,268 in 2016 to 11,202 in 2017. Residential buildings accounted for 85.0 per conference of the completed private buildings during the review period. The number of public building completed increased by 9.6 per cent to 1,164 units, out of which 1,072 units were for Nation Police and Prison services.

Table 11.5: Reported Private and Public Buildings<sup>1</sup> Completed, 2013 – 2017

Number

	Privat	e (Nairobi City Cou	Public (Countrywide)	
Year	Residential	Non- Residential	Total	Residential
2013	5,447	876	6,323	376
2014	6,538	985	7,523	243
2015	7,834	1,220	9,054	45
2016	8,806	1,462	10,268	1,062
2017*	9,564	1,638	11,202	1,164

 $Source: Nairobi\ City\ County, National\ Housing\ Corporation\ \&\ The\ State\ Department\ for\ Housing$ 

<sup>\*</sup>Provisional

<sup>&</sup>lt;sup>1</sup>Excluding extensions

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup> New buildings

11.9. Table 11.6 shows reported value of new private buildings issued with certificate occupancy in NCC and public buildings completed countrywide by the State Department Housing and NHC. The value of new private buildings increased by 10.2 per cent from K 77.7 billion in 2016 to KSh 85.6 billion in 2017, mainly on account of a 9.7 per cent increase in the value of residential buildings. The value of public buildings completed decreased from KSh 3.8 billion in 2016 to KSh 2.3 billion in 2017.

Table 11.6: Reported Value of New Private and Public Buildings issued with certificate of occupancy, 2013 – 2017

KSh Million

Year	Private (	Nairobi City	Public (Countrywide)	
rear	Residential	Non-	Total	Residential
2013	45,236.4	7,039.6	52,276.0	1,725.4
2014	50,952.2	8,567.5	59,519.7	502.1
2015	61,556.4	9,311.0	70,867.4	61.5
2016	67,624.9	10,124.8	77,749.7	3,786.4
2017*	74,207.0	11,381.3	85,588.3	2,347.0

Source: Nairobi City County, National Housing Corporation & the State Department for Housing

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NB: Public residential buildings are constructed by the State Department for Housing and National Housing Corporation

<sup>\*</sup> Provisional

Housing Credit and Government Expenditures 11.10. Table 11.7 presents the number and value of loans advanced by the National House Corporation to individuals for construction and improvement of residential houses by Court A total of 73 loans amounting to KSh 91.7 million were issued in 2017. The highest number loans were issued to residents of Trans Nzoia and Kiambu counties.

Table 11.7: Housing Loans Advanced by National Housing Corporation by County, 2016/2017

County	Number of Loans	Amount (KSh '000')
Bungoma	4	7,150
Busia	1	600
Eldoret	2	4,000
Homa Bay	1	1,900
Kajiado	7	4,600
Kakamega	3	3,300
Kiambu	10	7,740
Kirinyaga	1	3,000
Kisii	2	2,400
Kisumu	3	6,500
Lamu	5	2,400
Machakos	6	10,440
Meru	2	5,700
Murang'a	1	3,000
Nairobi City	3	6,450
Nakuru	4	10,740
Vihiga	2	3,700
Taita Taveta	4	2,000
Trans Nzoia	12	6,100
Total	73	91,720

11.11 Approved and actual Government expenditure on housing from 2013/14 to 2016/is shown in Table 11.8. Actual expenditure on housing increased significantly from KSh billion in 2015/16 to KSh 16.5 billion in 2016/17. The actual expenditure in 2016/17 v 94.6 per cent of the approved expenditure.

Table~11.8: Approved~and~Actual~Government~Expenditure~on~Housing, 2013/14-2017/18

			Actual expenditure as a
	Expenditur	e in KSh Million	Percentage of Approved
Year	Approved	Actual	Expenditure
2013/14	7,032.0	6,088.6	86.6
2014/15	7,395.0	5,857.0	79.2
2015/16	7,342.7	6,034.5	82.2
2016/17*	17,498.9	16,548.7	94.6
2017/18**	14,845.8		

Source: State Department of Housing

<sup>\*</sup>Provisional

<sup>\*\*</sup>Estimates

Roads Statistics

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11.12. Table 11.9 gives a breakdown of the total expenditure on roads from 2013/14 2017/18. The overall expenditure on roads is expected to increase by 14.2 per cent to KS 198.4 billion in 2017/18 from KSh 173.7 billion in 2016/17. Total development expenditu on roads is expected to increase by 19.2 per cent from KSh 113.2 billion in 2016/17 to KS 134.9 billion in the 2017/18. The expenditure on maintenance and repair of various roads expected to increase from KSh 60.5 billion in 2016/17 to KSh 63.5 billion in 2017/18. The increase is mainly attributed to the increased budgetary allocation and increase in fuel levy.

Table 11.9: Expenditure on Roads, 2013/14 - 2017/18

					KSh Milli
	2013/14	2014/15	2015/16	2016/17*	2017/18
Development:					
Trunk and primary Roads (A,B and C)	43,763.4	37,792.0	60,686.8	63,887.0	79,309.
Secondary and Minor Roads (D and E)	16,784.0	12,343.5	20,492.1	29,291.5	31,496.
Miscellaneous Roads (Including Urban)	3,853.0	4,698.4	17,093.3	20,004.0	24,122.
Sub-total	64,400.4	54,833.9	98,272.2	113,182.5	134,927.
Recurrent:					
Maintenance & Repair	25,174.5	25,924.2	32,286.5	60,468.6	63,473.
Total	89,574.9	80,758.1	130,558.7	173,651.1	198,401.1

Source: State Department of Infrastructure & Kenya Roads Board

11.13. The Roads 2000 (R2000) Strategy is a programme geared towards maintenance are improvement of roads, with optimum use of labour and local resources. The programme funded by several development partners and is managed through the Public Private Partnersh (PPP). As shown in Table 11.10, a total of 5.3 thousand kilometres of roads were earmarked for construction in several counties at an estimated cost of KSh 238.7 billion in 2017.

<sup>\*</sup>Provisional

<sup>\*\*</sup>Estimates

Table 11.10: Status of Ongoing R2000 Programme as at end of December 2017

C		Percentage	Estimated Project Cos		
County	Length (Km)	Completion	(KSh Million)		
Baringo	262.0	51.4	10,294.8		
Bomet	188.2	9.3	7,131.7		
Bungoma	166.5	38.6	8,810.6		
Busia	63.0	42.9	3,168.6		
Elgeyo/Marakwet	47.7	94.3	2,470.1		
Embu	119.1	23.7	5,485.3		
Garisa	7.3	5.0	519.9		
Homa Bay	139.0	9.1	4,644.9		
Isiolo	82.1	7.7	3,946.1		
Kajiado	70.0	0.0	3,037.6		
Kakamega	111.3	26.8	4,986.9		
Kericho	183.0	23.0	8,913.8		
Kiambu	263.1	19.7	12,529.2		
Kilifi	197.0	22.1	7,815.0		
Kirinyaga	64.0	15.4	2,804.9		
Kisii	280.0	11.8	12,699.1		
Kisumu	48.0	9.0	2,005.2		
Kitui	85.0	1.8	3,821.3		
Kwale	74.0	1.4	3,024.6		
Laikipia	120.0	28.9	5,912.4		
Machakos	191.9	43.8	7,439.6		
Makueni	105.8	15.4	4,200.2		
Marsabit	110.0	0.0	5,007.9		
Meru	280.7	19.4	13,964.6		
Migori	33.0	96.0	1,536.0		
Mombasa	12.2	0.0	866.1		
Murang'a	238.0	17.3	11,848.4		
Nairobi	8.0	91.0	721.0		
Nakuru	257.0	15.0	8,459.0		
Nandi	180.0	0.2	8,119.3		
Narok	20.0	33.6	720.3		
Nyamira	88.6	46.3	4,717.6		
Nyandarua	58.7	15.8	3,148.1		
Nyeri	213.9	49.3	9,887.4		
Siaya	69.0	20.1	3,212.5		
Tana River	15.0	16.4	761.6		
Tharaka-Nithi	88.5	12.0	3,526.1		
Trans Nzoia	50.0	0.0	2,045.4		
Turkana	153.0	0.2	6,948.7		
Uasin Gishu	340.5	51.8	17,742.2		
Vihiga	84.0	5.7	3,195.2		
West Pokot	160.0	28.5	6,605.9		
Total	5,328.0	24.3	238,695.2		

Source: Kenya Rural Roads Authority

11.14. Road network by type and classification as at 30th June from 2013 to 2017 is shown in Table 11.11. The length of roads under bitumen increased by 42.3 per cent to 20.6 thousand kilometres in 2017 from 14.5 thousand kilometres in 2016. The length of trunk and primary roads under bitumen increased significantly from 8.5 thousand kilometres in 2016 to 12.2 thousand kilometres in 2017. The length of roads under earth and gravel almost doubled from 72.5 thousand kilometres to 140.8 thousand kilometres mainly due to reclassification of roads during the review period.

Table 11.11: Kilometres of Road by Type and Classification as at 30th June, 2013 - 2017

					'000 Km
Type of Road	2013	2014	2015	2016	2017*
Bitumen					
Trunk and primary Roads (A,B and C)	7.9	7.9	8.2	8.5	12.2
Secondary and Minor Roads (D and E)	3.1	3.1	3.2	3.3	4.9
Miscellaneous Roads <sup>1</sup>	0.2	2.1	2.5	2.7	3.6
Total	11.2	13.1	13.9	14.5	20.6
Earth / Gravel					
Trunk and primary Roads (A,B and C)	6.4	6.4	6.5	5.7	27.8
Secondary and Minor Roads (D and E)	35.1	46.3	47.8	56.3	78.9
Miscellaneous Roads <sup>1</sup>	11.0	10.8	11.3	10.5	34.1
Total	52.5	63.5	65.6	72.5	140.8

Source: Kenya Roads Board

11.15. Major road works in progress in 2017 are presented in Table 11.12. During the review period, KSh 201.7 billion was expected to be used for road construction, rehabilitation and upgrading. A total of KSh 103.3 billion was expected to be used for construction of 1.5 thousand kilometres of roads while KSh 98.4 billion was expected to be used for rehabilitation and upgrading of roads and interchanges. The major ongoing projects during the review period were: the expansion and modernisation of the Outer Ring road, expansion of Ngong road, the construction of Kenya's Western bypass, Dongo Kundu bypass and Nuno-Modogashe road.

<sup>\*</sup>Provisional

 $<sup>^{1}\!</sup>Miscellaneous\ Roads\ includes;\ Urban\ roads,\ Government\ access,\ Settlement,\ Rural\ access,\ sugar,\ tea\ and\ wheat\ roads$ 

Table 11.12 - Major Road Works in Progress in 2017

Road Construction Construction of Kibwezi - Mutomo - Kitui. Miritini - Mwache Kipevu Link Road. Garsen - Lamu - Witu. Nuno-Modogashe (A13). Loruk - Barpelo (B17) Athi River - Machakos Turnoff. Eldoret Bypass. Chiakariga - Meru (C92) Masara-Suna-Kehancha (C13) and Reinstatement of Awendo - Mariwa (D202) Kitale - Endebes - Suam. Uplands - Githunguri road. Chebilat - Ikonge - Chabera (C750) Port Reitz/Moi International Airport (C110) Rumuruti - Maralal Road (C77). OljoOrok - Dundori (C83) Road. Siaya - Ruambwa Road (C29) Karen round- about Northern and Eastern By-passes Gitaru road - Kirawa rd - Peponi rd - Kiambu Road- Runda Road - Northern By Pass-Wangige road- (Rironi). Pangani-Wakulima RA-Dagoreti corner- Dagoreti corner-Ngong town/ Junction A8 (ABC place)- Junction A8 (GPO)- Kenyatta Avenue- Junction Moi Avenue  Donholm RA- road/ Junction UCB3 (Traffic police) - (Bunyala RA)/ Junction A8 (General Motors)- Enterprise road- Commercial street-Bunyala road- Casuarina Road Western Link Roads, Mbagathi Way, Dennis Pritt, State House Road, Jakaya Kikwete, State House Avenue and Lenana Road Msabaha-Serengeti, Kakuyuni-Gede-Watamu, Jilore-Sita Centre, Kakayuni-Gede-Watamu	192.0 19.6 135.0 135.0 66.0 20.0 32.0 56.0 60.0 48.0 47.0 35.0 9.0 35.0 26.0 4.4 51.6	18,404.9 12,675.9 10,868.6 6,135.7 6,040.9 5,288.5 5,079.5 4,667.6 4,561.5 4,475.0 3,988.1 3,109.8 2,797.8 2,740.8 1,911.1 1,908.5 585.9 90.9
Miritini - Mwache Kipevu Link Road	19.6 135.0 135.0 66.0 20.0 32.0 56.0 60.0 48.0 47.0 35.0 9.0 35.0 26.0 4.4 51.6	12,675.9 10,868.6 6,135.7 6,040.9 5,288.5 5,079.5 4,667.6 4,561.5 4,475.0 3,988.1 3,109.8 2,797.8 2,740.8 1,911.1 1,908.5 585.9
Garsen – Lamu – Witu	135.0 66.0 20.0 32.0 56.0 60.0 48.0 47.0 35.0 9.0 35.0 26.0 4.4 51.6	10,868.6 6,135.7 6,040.9 5,288.5 5,079.5 4,667.6 4,561.5 4,475.0 3,988.1 3,109.8 2,797.8 2,740.8 1,911.1 1,908.5 585.9
Nuno-Modogashe (A13)	135.0 66.0 20.0 32.0 56.0 60.0 48.0 47.0 35.0 9.0 35.0 35.0 26.0 4.4 51.6	6,135.7 6,040.9 5,288.5 5,079.5 4,667.6 4,561.5 4,475.0 3,988.1 3,109.8 2,797.8 2,740.8 1,911.1 1,908.5 585.9
Loruk – Barpelo (B17)	66.0 20.0 32.0 56.0 60.0 48.0 47.0 35.0 9.0 35.0 35.0 26.0 4.4 51.6	6,040.9 5,288.5 5,079.5 4,667.6 4,561.5 4,475.0 3,988.1 3,109.8 2,797.8 2,740.8 1,911.1 1,908.5 585.9
Athi River - Machakos Turnoff	20.0 32.0 56.0 60.0 48.0 47.0 35.0 9.0 35.0 35.0 26.0 4.4 51.6	5,288.5 5,079.5 4,667.6 4,561.5 4,475.0 3,988.1 3,109.8 2,797.8 2,740.8 1,911.1 1,908.5 585.9
Eldoret Bypass	32.0 56.0 60.0 48.0 47.0 35.0 9.0 35.0 26.0 4.4 51.6	5,079.5 4,667.6 4,561.5 4,475.0 3,988.1 3,109.8 2,797.8 2,740.8 1,911.1 1,908.5 585.9
Chiakariga – Meru (C92)	56.0 60.0 48.0 47.0 35.0 9.0 35.0 35.0 26.0 4.4 51.6	4,667.6 4,561.5 4,475.0 3,988.1 3,109.8 2,797.8 2,740.8 1,911.1 1,908.5 585.9
Masara-Suna-Kehancha (C13) and Reinstatement of Awendo -Mariwa (D202)	60.0 48.0 47.0 35.0 9.0 35.0 35.0 26.0 4.4 51.6	4,561.5 4,475.0 3,988.1 3,109.8 2,797.8 2,740.8 1,911.1 1,908.5 585.9
Kitale – Endebes - Suam  Uplands - Githunguri road  Chebilat – Ikonge – Chabera (C750)  Port Reitz/Moi International Airport (C110)  Rumuruti – Maralal Road (C77)  OljoOrok - Dundori (C83) Road  Siaya - Ruambwa Road (C29)  Karen round- about  Northern and Eastern By-passes  Gitaru road - Kirawa rd – Peponi rd - Kiambu Road - Runda Road - Northern By Pass-Wangige road-(Rironi)  Pangani-Wakulima RA-Dagoreti corner- Dagoreti corner-Ngong town/ Junction A8 (ABC place)-Junction A8(GPO)-Kenyatta Avenue- Junction Moi Avenue  Donholm RA- road/ Junction UCB3 (Traffic police) - (Bunyala RA)/ Junction A8 (General Motors)-Enterprise road-Commercial street-Bunyala road  Casuarina Road  Western Link Roads, Mbagathi Way, Dennis Pritt, State House Road, Jakaya Kikwete, State House Avenue and Lenana Road	48.0 47.0 35.0 9.0 35.0 35.0 26.0 4.4 51.6	4,475.0 3,988.1 3,109.8 2,797.8 2,740.8 1,911.1 1,908.5 585.9
Uplands - Githunguri road	47.0 35.0 9.0 35.0 35.0 26.0 4.4 51.6	3,988.1 3,109.8 2,797.8 2,740.8 1,911.1 1,908.5 585.9
Chebilat – Ikonge – Chabera (C750)	35.0 9.0 35.0 35.0 26.0 4.4 51.6	3,109.8 2,797.8 2,740.8 1,911.1 1,908.5 585.9
Chebilat – Ikonge – Chabera (C750)	9.0 35.0 35.0 26.0 4.4 51.6	2,797.8 2,740.8 1,911.1 1,908.5 585.9
Port Reitz/Moi International Airport (C110)	9.0 35.0 35.0 26.0 4.4 51.6	2,797.8 2,740.8 1,911.1 1,908.5 585.9
Rumuruti – Maralal Road (C77)	35.0 35.0 26.0 4.4 51.6	2,740.8 1,911.1 1,908.5 585.9
OljoOrok - Dundori (C83) Road	35.0 26.0 4.4 51.6	1,911.1 1,908.5 585.9
Siaya - Ruambwa Road (C29)  Karen round- about	26.0 4.4 51.6	1,908.5 585.9
Karen round- about	4.4 51.6	585.9
Northern and Eastern By-passes	51.6	
Gitaru road - Kirawa rd – Peponi rd - Kiambu Road - Runda Road - Northern By Pass-Wangige road-(Rironi)		, , , ,
road-(Rironi)  Pangani-Wakulima RA-Dagoreti corner- Dagoreti corner-Ngong town/ Junction A8 (ABC place)-Junction A8 (GPO)-Kenyatta Avenue- Junction Moi Avenue  Donholm RA- road/ Junction UCB3 (Traffic police)- (Bunyala RA)/ Junction A8 (General Motors)-Enterprise road-Commercial street-Bunyala road-  Casuarina Road	119.5	
Pangani-Wakulima RA-Dagoreti corner- Dagoreti corner-Ngong town/ Junction A8 (ABC place)-Junction A8 (GPO)-Kenyatta Avenue- Junction Moi Avenue		69.6
place)-Junction A8(GPO)-Kenyatta Avenue- Junction Moi Avenue		07.0
Motors)-Enterprise road-Commercial street-Bunyala road- Casuarina Road Western Link Roads, Mbagathi Way, Dennis Pritt, State House Road, Jakaya Kikwete, State House Avenue and Lenana Road	38.5	62.9
Casuarina Road		
Western Link Roads, Mbagathi Way, Dennis Pritt, State House Road, Jakaya Kikwete, State House Avenue and Lenana Road	37.0	59.4
House Avenue and Lenana Road	28.7	54.5
Msabaha-Serengeti, Kakuyuni-Gede-Watamu, Jilore-Sita Centre, Kakayuni-Gede-Watamu	24.0	46.8
	46.8	38.0
Junction (Magadi Road)-Junction UCB2 (Langata Road)-Junction UCB3 (Ngong Road)./		
Junction UCB2 - Langata South rd – Ushirika rd – Gataka rd – Matasi rd-Junction Ngong –		
Kiserian Road. / Junction Langata south - Kipevu rd – Banda lane- Junction Magadi Road		
(Banda school)	26.5	36.9
Nyayo stadium - Karen Round About- Kikuyu road-Muthiga	28.0	35.3
Mkunumbi - Kaloleni, Bomani - Telelani ECD, Lake Amu – Kiogwe - Mkunumbi-Magogoni	51.0	31.1
Tsavo N.Park- Shasha-Shelembe-Mkwachunyi-Ikanga Adult Centre- Mkwachunyi-Tausa-	31.0	51.1
Mariwenyi-Gimba Primary-Voi Town-Birikani	38.8	29.7
Routine Maintenance of Nakuru Roads In Nakuru County-Nakuru Municipality Roads (Lot 2-	30.0	4 <b>7.</b> /
	107	26.6
All)	18.7 22.5	26.6 17.7
Kidunguni - Youngstar - Likoni, A14 - Emmanuel Junior School, A14 - Ferry, Kidunguni - Base		
Titunium, A14 - Ferry, Shelly Beach Road, Mtongwe - Navy Road	25.6	17.6
Nairobi Outering Road Improvement Project	13.0	7,395.2
Devki-Kinanie road	± U. U	10.0
Sub-Total 1	22.4	103,262.2

Source: KeNHA & KURA

Table 11.12 - Major Road Works in Progress in 2017 Cont'd

		Contract
Activity	Length (Km)	Amount (KSh
	-	Million)
Roads Rehabilitation & Upgrading		
James Gichuru - Rironi	119.5	16,366.6
Kisii – Ahero –Isebania (A1) Lot 2: Kisii - Ahero	192.0	9,467.0
Kisii – Ahero – Isebania (A1) Lot 1: Isebania - Kisii	184.0	8,597.8
Lokitaung Junction - Kalobeiyei River	80.0	8,456.3
Lodwar - Lokitaung Junction	80.0	8,333.9
Kisumu - Kakamega Road	42.0	7,961.5
Kalobeiyei River - Nadapal	88.0	7,856.1
Loichangamatak - Lodwar	50.0	6,782.4
Mombasa – Kwa Jomvu Rd (A109)	40.0	6,016.9
Bachuma Gate - Maji ya Chumvi	53.4	4,986.2
Kakamega - Kaburengu (Webuye) New	40.0	4,168.7
Kisumu Boys - Mamboleo	9.2	2,565.1
Phase one of Ngong Road expansion	9.8	1,300.0
Kainuk Bridge	-	1,539.0
Interchanges <sup>1</sup>		
Construction of 3 interchanges at Nakuru	-	2,690.0
Interchange at Kericho (B1/C23)	-	671.9
Interchange at Ahero (A1/B1)	-	655.9
Sub-Total Sub-Total	987.9	98,415.2
Total	2,535.5	201,677.4

**Developments** 11.16. In 2017, the first phase of construction of the single-track Standard Gauge Rail (SGR) from Mombasa to Nairobi was completed. The first commuter train, Madaraka Express, was launched on 31st May 2017. Construction work for the second phase of SGR (Phase 2A) that runs 120 kilometres from Nairobi to Naivasha commenced in September 2017. The construction work will cost KSh 155.5 billion and is expected to be completed within 18 months. Construction works include; a 5.3 kilometre tunnel, 9 super bridges rising up to 58 metres, and construction of 4 tunnels covering 7.756 kilometres.

> 11.17. The construction of a 70-floor building which is expected to be the tallest in Africa started in 2017 and is estimated to cost KSh 20.1 billion on completion. In addition, by December 2017, there were five ongoing housing projects in Machakos, Nairobi and Mombasa Counties. These projects are expected to provide an additional 450 housing units upon completion, at an estimated cost of KSh 2.0 billion.

#### **Tourism Sector**

Chapter

#### **Overview**

The tourism sector recorded improvements during the year under review despite a prolonged electioneering period and negative travel advisories issued by some countries. Improved performance of the sector was supported by enhanced security, and aggressive promotion in both the domestic and the international markets. Receipts from the sector increased significantly by 20.3 per cent from KSh 99.7 billion in 2016 to KSh 119.9 billion in 2017. This was attributed to the increase in the number of international visitor arrivals that rose by 8.1 per cent from 1,339.7 thousand in 2016 to 1,448.8 thousand in 2017.

12.2. Hotel bed-nights occupancy increased by 11.3 per cent from 6,448.5 thousand in 2016 to 7,174.2 thousand in 2017. The number of international conferences held contracted by 15.9 per cent from 227 in 2016 to 191 in 2017. On the other hand, local conferences held increased by 2.4 per cent from 3,755 in 2016 to 3,844 in 2017.

12.3. The number of visitors to national parks and game reserves rose by 2.6 per cent to 2,345.2 thousand in 2017. However, visitors to museums, snake parks and historical sites decreased by 15.3 per cent to 782.0 thousand in 2017 from 923.1 thousand in 2016.

Visitor 12.4. International visitor arrivals and tourism earnings continued on the recovery path witnessed since 2016 as shown in Figure 12.1. The recovery was associated with measures put in place by the Government in the sector that resulted in tourist arrivals going up by 8.1 per cent to 1,448.8 thousand in 2017. Consequently, earnings rose by 20.3 per cent from KSh 99.7 billion in 2016 to KSh 119.9 billion in 2017.



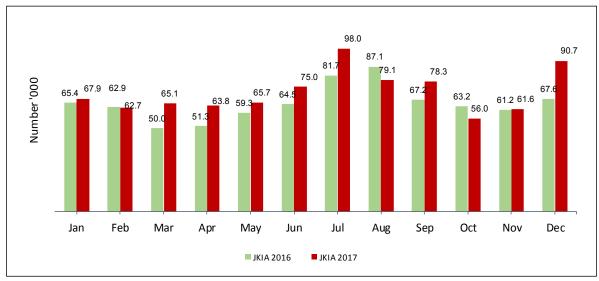
Figure 12.1: Trends in International Visitor Arrivals and Tourism Earnings, 2013 – 2017

12.5. Figures 12.2(a) and 12.2(b) present monthly visitor arrivals through Moi International Airport (MIA) and Jomo Kenyatta International Airport (JKIA), respectively, in 2016 and 2017. The number of tourists who arrived through MIA grew by 8.0 per cent from 92.9 thousand in 2016 to 100.3 thousand in 2017. Similarly, arrivals through JKIA expanded by 10.6 per cent from 781.5 thousand in 2016 to 864.0 thousand in 2017. The highest number of arrivals at MIA were registered in December 2017 while at JKIA the peak was recorded in July 2017. Generally, month on month analysis revealed that arrivals in the two international airports were higher in most of months of 2017 compared to 2016.

15.1 11.5 11.0 10.7 Number '000 9.0 8.6 8.4 7.8 3.9 4.1 3.6 2.7 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec ■ MIA 2016 ■ MIA 2017

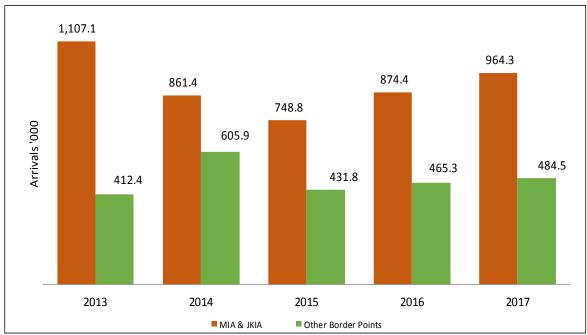
Figure 12.2(a): Monthly International Visitor Arrivals through MIA, 2016 -2017

Figure 12.2(b): Monthly International Visitor Arrivals through JKIA, 2016 -2017



12.6. A comparison of international visitor arrivals through both MIA and JKIA to those through other border points from 2013 to 2017 is shown in Figure 12.2(c). The visitor arrivals through both MIA and JKIA grew at a faster rate of 10.3 per cent compared to a rise of 4.1 per cent for the other border stations during the review period. Despite the observed growth, the combined total number of visitor arrivals in 2017 was below the 2013 levels.





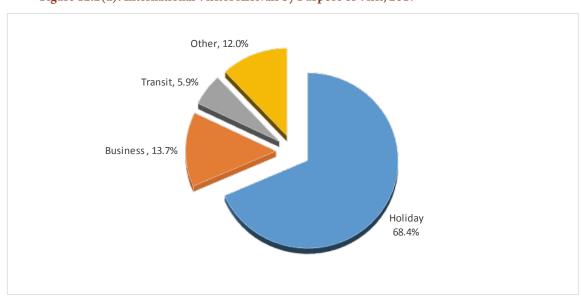
12.7. The number of international arrivals by purpose of visit and by quarter for the period 2013 to 2017 is shown in Table 12.1. Generally, these arrivals went up in all the quarters in 2017 compared to 2016. This growth was more pronounced in the second quarter, increasing by 15.5 per cent to 340.5 thousand in 2017. This was followed by the fourth quarter where the arrivals rose by 6.8 per cent from 343.3 thousand in 2016 to 366.8 thousand in 2017. Visitors who came for holiday, business and transit recorded declines during the third and fourth quarters of 2017. This could be attributed to uncertainties associated with the 2017 general elections. The number of visitor arrivals on holiday accounted for 68.4 per cent of all international arrivals in 2017, followed by business at 13.7 per cent as depicted in Figure 12.2(d). However, the share of holidaymakers was lower in 2017 compared to the previous year.

Table 12.1: International Visitor Arrivals by Purpose of Visit, 2013-2017

						'000
Quarter	Purpose	2013	2014	2015	2016	2017*
1 <sup>st</sup> Qtr.	Holiday	257.6	266.2	210.1	231.3	243.4
	Business	45.9	50.1	41.3	41.5	56.2
	Transit	22.5	28.5	18.2	16.9	20.3
	Other	30.5	37.1	23.5	27.3	17.0
	TOTAL	356.4	382.0	293.1	317.0	336.9
2 <sup>nd</sup> Qtr.	Holiday	222.0	207.0	171.8	199.4	226.2
	Business	47.3	38.5	42.5	45.1	52.3
	Transit	21.8	22.9	14.3	18.4	35.3
	Other	39.5	24.2	30.7	31.9	26.8
	TOTAL	330.6	292.5	259.3	294.8	340.5
3 <sup>rd</sup> Qtr.	Holiday	284.2	267.9	231.4	278.3	274.0
	Business	41.7	43.0	37.2	53.4	51.6
	Transit	20.8	22.2	19.6	17.4	15.3
	Other	35.5	36.7	34.0	35.6	63.6
	TOTAL	382.2	369.8	322.1	384.6	404.5
4 <sup>th</sup> Qtr.	Holiday	340.1	235.7	231.5	253.6	248.0
	Business	55.3	35.3	37.5	40.0	38.6
	Transit	21.1	15.5	14.3	18.8	14.1
	Other	34.0	19.5	22.6	30.8	66.0
	TOTAL	450.4	306.1	306.0	343.3	366.8
Annual	Holiday	1,103.8	976.9	844.8	962.6	991.7
	Business	190.2	166.9	158.6	180.0	198.7
	Transit	86.1	89.2	66.4	71.5	84.9
	Other	139.5	117.5	110.7	125.6	173.5
	TOTAL	1,519.6	1,350.4	1,180.5	1,339.7	1,448.8

<sup>\*</sup> Provisional

Figure 12.2(d): International Visitor Arrivals by Purpose of Visit, 2017



# Visitor Departures

12.8. The total number of international departures by purpose of visit and by quarter from 2013 to 2017 is shown in Table 12.2. The number of departing visitors rose from 1,341.2 thousand in 2016 to 1,396.5 thousand in 2017, representing a 4.1 per cent rise. Departures during the first, second and third quarters of 2017 went up by 6.4, 6.9 and 7.3 per cent, respectively, compared to corresponding periods of the previous year. However, the fourth quarter of 2017 recorded a decline of 3.8 per cent in visitor departures. This was because of reduced holiday departures in 2017.

Table 12.2: International Visitor Departures by Purpose of Visit, 2013-2017

		_				
						'000
Quarter	Purpose	2013	2014	2015	2016	2017*
1 <sup>st</sup> Qtr.	Holiday	264.0	234.6	222.9	215.1	223.9
	Business	51.7	53.6	43.8	51.2	54.9
	Transit	21.4	33.7	19.3	23.2	25.6
	Other	33.8	40.1	24.9	32.7	38.6
	TOTAL	370.9	362.0	310.9	322.2	342.9
2 <sup>nd</sup> Qtr.	Holiday	206.8	205.6	211.4	210.3	222.8
	Business	57.1	45.6	52.3	47.6	49.6
	Transit	17.3	23.7	17.6	19.4	24.9
	Other	26.8	37.0	37.7	33.6	35.3
	TOTAL	308.0	312.0	319.1	311.0	332.6
3 <sup>rd</sup> Qtr.	Holiday	265.7	244.9	257.9	251.7	246.6
	Business	40.5	45.7	44.7	50.2	58.3
	Transit	20.2	24.4	23.5	16.3	26.2
	Other	44.4	40.4	60.8	43.5	56.9
	TOTAL	370.7	355.4	386.9	361.7	388.0
4 <sup>th</sup> Qtr.	Holiday	323.3	260.3	250.1	260.8	234.3
	Business	53.0	48.1	40.6	40.4	46.6
	Transit	23.2	25.7	15.5	19.0	21.8
	Other	32.6	40.1	24.4	26.1	30.3
	TOTAL	432.1	374.3	330.6	346.3	333.0
Annual	Holiday	1,059.8	945.5	942.4	937.9	927.6
	Business	202.3	193.0	181.4	189.3	209.4
	Transit	82.1	107.6	75.9	78.0	98.5
	Other	137.6	157.6	147.9	136.0	161.1
	TOTAL	1,481.8	1,403.7	1,347.6	1,341.2	1,396.5

<sup>\*</sup> Provisional

12.9. Table 12.3 presents the number of departing visitors by country of residence and by purpose of visit, excluding visitors whose purpose of visit was "Other". Residents of Germany and United Kingdom jointly accounted for over half of all the departing residents of Europe. Departing residents of Canada and Switzerland recorded the highest growths of 29.6 and 26.4 per cent, respectively, in 2017. Departures by residents of African countries decreased by 8.4 per cent to 285.0 thousand in 2017. Similarly, departing residents of Tanzania declined by 21.8 per cent over the review period.

Table 12.3: Departing Visitors by Country of Residence and by Purpose of Visit<sup>1</sup>, 2015-2017

		Holiday			Business			Transit			Total	'000
Country of Residence	2015	2016	2017*	2015	2016	2017*	2015	2016	2017*	2015	2016	2017*
Germany	79.3	81.0	83.8	9.1	9.3	9.7	4.8	5.0	5.3	93.3	95.2	98.8
United Kingdom	132.2	129.6	124.9	28.0	25.8	29.9	10.0	11.3	13.2	170.1	166.7	168.0
Switzerland	11.3	9.3	10.9	2.1	1.8	2.1	0.9	1.9	3.2	14.3	12.9	16.3
Italy	40.4	42.3	45.5	7.5	7.4	8.0	3.1	4.0	4.3	51.1	53.7	57.9
France	21.3	23.2	24.2	4.0	4.3	4.5	1.7	2.2	2.9	27.0	29.8	31.5
Scandinavia	31.3	33.1	34.1	5.8	6.0	6.1	2.4	3.0	5.1	39.5	42.1	45.4
Other Europe	65.6	70.3	74.7	14.0	16.1	18.0	5.9	6.0	6.7	85.5	92.5	99.4
TOTAL EUROPE	381.5	388.7	398.2	70.5	70.7	78.4	28.8	33.4	40.7	480.7	492.8	517.3
USA	116.8	118.3	120.1	15.5	17.4	18.9	8.4	8.6	9.4	140.8	144.4	148.4
Canada	22.5	19.4	24.4	4.7	4.3	5.4	1.7	1.2	2.6	28.9	25.0	32.4
TOTAL NORTH AMERICA	139.3	137.7	144.5	20.2	21.8	24.3	10.1	9.9	11.9	169.6	169.3	180.7
Uganda	37.5	39.3	39.9	9.4	9.6	9.8	3.0	4.0	6.1	49.8	53.0	55.8
Tanzania	23.1	26.0	19.4	4.4	5.0	4.5	1.8	2.0	1.8	29.3	33.0	25.8
Other A frica	191.0	177.1	149.0	36.0	39.8	41.5	15.1	8.1	13.0	242.1	225.0	203.5
TOTAL AFRICA	251.7	242.5	208.3	49.7	54.5	55.8	19.8	14.1	20.9	321.2	311.1	285.0
India	63.6	65.3	68.8	12.0	13.9	18.9	5.0	5.2	7.0	80.6	84.4	94.7
Japan	8.3	8.5	8.9	1.6	1.7	2.0	0.7	1.2	1.4	10.5	11.4	12.2
Israel	3.0	2.7	2.4	2.6	2.3	2.0	0.2	1.0	0.9	5.8	5.9	5.2
Other Asia	62.3	60.7	59.6	17.7	17.3	18.1	4.9	7.7	8.1	84.9	85.8	85.8
TOTAL ASIA	137.2	137.2	139.6	33.9	35.2	41.0	10.8	15.1	17.4	181.9	187.5	198.0
Australia and New Zealand	18.3	20.2	23.8	3.4	3.2	4.4	1.4	2.5	3.4	23.2	25.9	31.7
All Other Countries	14.4	11.7	13.1	3.7	3.9	5.4	4.9	3.0	4.1	23.0	18.6	22.6
TOTAL	942.4	937.9	927.6	181.4	189.3	209.4	75.9	78.0	98.5	1,199,7	1.205.2	1,235,4

<sup>\*</sup> Provisional

12.10. Details of the number of visitor-days stayed by purpose of visit together with average length of stay are shown in Table 12.4. The total number of days stayed by all categories of departing visitors excluding "Other" visitors expanded marginally from 15,884.6 thousand in 2016 to 16,057.6 thousand in 2017. However, the average length of stay dropped slightly to 13.0 days in 2017 from 13.2 days in 2016.

Table 12.4: Number of Visitor-Days Stayed<sup>1</sup> by Purpose of Visit, 2013-2017

					1000
Purpose	2013	2014	2015	2016	2017*
Holiday	14,881.8	13,276.2	13,232.9	13,170.5	13,025.1
Business	2,691.6	2,568.1	2,413.7	2,518.6	2,785.5
Transit	205.9	270.0	190.3	195.5	247.0
TOTAL	17,779.3	16,114.3	15,837.0	15,884.6	16,057.6
Average length of stay in days	13.2	12.9	13.2	13.2	13.0
* 5 1					

<sup>\*</sup> Provisional

Hotel Occupancy by Country of Residence 12.11. Trends in the monthly bed occupancy rates are depicted in Figure 12.3. The overall rate of bed occupancy increased from 30.3 per cent in 2016 to 31.2 per cent in 2017. Bed occupancy rates in July, August and December had higher disparity in 2017 compared to 2016. Bed occupancy rates in May and November were almost the same in 2017 and 2016. The peak in bed occupancy was recorded in July at 37.3 per cent followed by December at 35.6 per cent in 2017. This was in contrast with 2016 where the peak bed occupancy was in December at 42.9 per cent.

<sup>&</sup>lt;sup>1</sup>Excludes visitors whose purpose of visit is "Other"

<sup>&</sup>lt;sup>1</sup>Excludes visitors whose purpose of visit is "Other"

42.9 37.3 36.4 35.6 32.1<sup>32.9</sup> 32.1 \_\_30.3 31.5 29.5 30.2 28.7 30.3 31.2 31.3 31.4 30. 29.3 28.4 28.6 28.7 27.8 Per cent 24.8 23.9 Feb Mar Apr May Jun Aug Oct Nov Dec Overall Jan Jul Sep

■2016 ■ 2017

Figure 12.3: Monthly Bed Occupancy Rates, 2016-2017

12.12. The number of bed-nights occupied in hotels, lodges and other rooming houses grew by 11.3 per cent from 6,448.5 thousand in 2016 to 7,174.2 thousand in 2017 as presented in Table 12.5. Bed occupancy by residents of Europe went up by 13.1 per cent in 2017. Among the European residents, bed occupancy by the residents of Switzerland recorded the highest increase of 23.9 per cent from 63.2 thousand in 2016 to 78.3 thousand in 2017, followed by residents of United Kingdom at 22.2 per cent from 211.6 thousand in 2016 to 258.6 thousand in 2017. The bed occupancy by residents of Africa grew by 3.6 per cent to 4,091.1 thousand in 2017 with the highest increase of 25.9 per cent coming from residents of North Africa. However, residents of Tanzania, South Africa and Uganda dropped in number of hotel bednights occupancy. Occupancy by Asian residents grew by 27.3 per cent from 386.2 thousand in 2016 to 491.8 thousand in 2017 with Chinese residents increasing by 45.8 per cent from 131.9 thousand in 2016 to 192.3 thousand in 2017 to continue being the majority. Kenyan residents occupied more than a half of the total bed-nights, in 2017, reflecting the importance of domestic tourism. The number of hotel bed-nights capacity grew by 8.1 per cent from 21,258.5 thousand in 2016 to 22,987.1 thousand in 2017, mainly on account of expansion and refurbishment of existing facilities and construction of new ones during the period under review, an indication of continued confidence in the sector. Similarly, the proportion of bednights occupied to the available capacity increased from 30.3 per cent in 2016 to 31.2 per cent in 2017.

Table 12.5: Hotel Bed-Nights Occupancy by Country of Residence, 2013-2017

					'000
Country of Residence	2013	2014	2015	2016	2017*
Permanent Occupants <sup>1</sup>	57.6	98.7	102.3	87.0	127.5
Germany	751.1	751.7	617.9	685.4	762.7
Switzerland	96.9	82.1	80.2	63.2	78.3
United Kingdom	498.3	275.0	224.5	211.6	258.6
Italy	234.8	156.2	74.1	88.3	91.6
France	113.9	75.6	67.1	89.9	97.1
Scandinavia	143.5	120.0	71.9	76.5	80.1
Other Europe	482.2	341.5	240.4	344.4	395.6
EUROPE	2,320.6	1,802.2	1,376.1	1,559.3	1,764.1
Kenya Residents	2,699.1	2,948.7	3,154.1	3,495.9	3,645.1
Uganda	110.2	67.7	76.0	77.4	76.8
Tanzania	64.5	62.0	55.7	58.3	51.0
East and Central Africa	104.3	101.3	102.3	105.3	110.7
West Africa	63.3	68.0	60.7	59.3	67.0
North Africa	29.0	37.3	24.9	32.0	40.3
South Africa	91.1	75.2	88.0	70.6	65.5
Other Africa	37.5	37.0	57.7	49.8	34.6
AFRICA	3,199.0	3,397.2	3,619.3	3,948.5	4,091.1
U.S.A	294.6	293.9	248.5	254.3	287.3
Canada	61.8	59.9	46.4	43.3	54.6
Other America	36.8	35.2	37.0	25.6	39.4
AMERICA	393.3	389.0	331.9	323.2	381.3
Japan	48.1	38.9	33.3	39.1	42.4
India	101.1	110.3	115.1	120.3	165.1
Middle East	50.6	57.4	55.8	49.4	46.2
China	105.9	92.1	82.6	131.9	192.3
Other Asia	54.4	49.4	45.2	45.5	45.9
ASIA	360.1	348.1	332.1	386.2	491.8
Australia and New Zealand	62.3	58.4	44.3	46.9	71.1
All Other Countries	203.9	188.0	72.6	97.5	247.4
TOTAL-OCCUPIED	6,596.7	6,281.6	5,878.6	6,448.5	7,174.2
TOTAL-AVAILABLE	18,292.2	19,877.2	20,187.2	21,258.5	22,987.1
Occupancy Rate %	36.1	31.6	29.1	30.3	31.2

<sup>\*</sup> Provisional

12.13. Table 12.6 presents details of hotel bed-nights occupancy by zone for the period 2013 to 2017. The number of hotel bed-nights occupied by tourists staying in hotel establishments located at the Coastal Beach area experienced a growth of 16.8 per cent from 2,286.3 thousand in 2016 to 2,670.4 thousand in 2017. Occupancy in Coastal Other grew by 6.0 per cent to stand at 209.0 thousand over the review period. Similarly, occupancy in Nairobi High Class registered an 8.3 per cent growth from 1,076.3 thousand in 2016 to 1,165.5 thousand in 2017, partly attributed to growth in the number of local conferences held in the city during the electioneering period. Decreases of 9.3 and 2.1 per cent in hotel bed-nights were recorded in the Nyanza Basin and in the Coastal Hinterland zones, respectively, in 2017.

<sup>&</sup>lt;sup>1</sup>Persons staying one month or more in one hotel, including some block bookings for air crew

Table 12.6: Hotel Bed-Nights by Zone, 2013-2017

					'000
Zone	2013	2014	2015	2016	2017*
Coastal Beach	2,750.3	2,527.7	2,113.8	2,286.3	2,670.4
Coastal Other	124.0	95.9	116.6	197.2	209.0
Coastal Hinterland	125.5	133.2	108.4	177.5	173.8
Nairobi High Class	1,175.3	1,119.1	1,014.9	1,076.3	1,165.5
Nairobi Other	455.7	388.0	378.0	445.1	507.3
Central	622.2	686.3	583.6	691.6	745.5
Masailand	473.0	479.5	491.6	655.5	732.1
Nyanza Basin	345.3	357.7	487.8	325.4	295.2
Western	454.1	433.3	448.8	493.6	572.0
Northern	71.2	60.9	135.1	100.0	103.3
TOTAL-OCCUPIED	6,596.7	6,281.6	5,878.6	6,448.5	7,174.2
TOTAL-AVAILABLE	18,292.2	19,877.2	20,187.2	21,258.5	22,987.1

<sup>\*</sup> Provisional

12.14. The number of bed-nights occupied at the Coast by zone, excluding the Coastal Hinterland in 2016 and 2017 is illustrated in Figure 12.4. The North Coast continued to be the most preferred destination compared to the South Coast in 2017. Bed-nights occupancy in the North Coast rose from 1,114.4 thousand in 2016 to 1,641.6 thousand in 2017. Occupancy within Mombasa Island improved from 197.2 thousand bed-nights in 2016 to 209.0 thousand bed-nights in 2017. However, bed-nights occupancy in the South Coast dropped from 1,057.8 thousand in 2016 to 928.1 thousand in 2017. Occupancy in Kilifi, Malindi and Lamu have continued to remain low, dropping further during the review period.

2,642.6 2,000 2,057.8 Number '000 1,500 928. 1,000 139 100.7 500 0 North Coast South Coast Kilifi. Malindi and Mombasa Island Lamu **2016 2017** 

Figure 12.4: Bed-Nights Occupancy at the Coast, 2016-2017

12.15. Table 12.7 presents the number of bed-nights occupied by area and by guests' country of residence. During the period under review, the share of hotel bed-nights occupied in lodges declined marginally from 11.7 per cent in 2016 to 11.6 per cent. The number of bed-nights occupied by residents of USA in lodges increased from 82.1 thousand in 2016 to 107.8 thousand in 2017. Similarly, the number of bed-nights occupied by Chinese residents in the lodges increased from 70.2 thousand in 2016 to 86.7 thousand in 2017. A notable improvement was recorded in the Coast region with local and Germany residents continuing to lead with 1,467.4 thousand and 685.3 thousand, respectively, in 2017. The percentage share of occupancy in Nairobi hotels declined marginally from 23.6 per cent in 2016 to 23.3 per cent in 2017.

Table 12.7: Hotel Bed-Nights Occupancy by Area and by Country of Residence, 2016-2017

-	Naii	L:	Coast Lodges <sup>2</sup>			2	Oth		Total	
Country of Residence	2016	2017*	2016	2017*	2016	2017*	2016	2017*	2016	2017*
n 1										
Permanent Occupants 1	10.7	7.2	12.0	50.1	2.1	2.6	62.2	67.6	87.0	127.5
Germany	31.4	31.1	615.2	685.3	29.8	34.3	9.0	12.0	685.4	762.7
Switzerland	8.4	10.0	45.8	55.8	5.9	6.8	3.1	5.7	63.2	78.3
United Kingdom	69.3	86.9	90.1	111.9	38.4	46.8	13.8	13.0	211.6	258.6
Italy	10.0	15.5	68.0	59.5	7.9	12.5	2.4	4.1	88.3	91.6
France	22.3	26.9	51.5	52.3	11.2	14.7	4.8	3.3	89.9	97.1
Scandinavia	20.6	22.8	35.0	31.4	13.5	19.4	7.5	6.5	76.5	80.1
Other Europe	84.9	85.6	199.7	248.4	48.7	46.4	11.1	15.2	344.4	395.6
Kenya	574.8	581.1	1,364.6	1,467.4	300.7	281.5	1,255.9	1,315.2	3,495.9	3,645.1
Uganda	46.5	43.2	14.4	21.1	1.5	1.4	15.0	11.1	77.4	76.8
Tanzania	38.3	33.8	10.7	11.1	2.2	1.1	7.0	5.0	58.3	51.0
East & Central A frica	86.9	88.7	12.8	15.9	0.9	2.2	4.6	4.0	105.3	110.7
West Africa	50.4	52.9	5.1	7.6	1.5	4.4	2.2	2.1	59.3	67.0
North Africa	26.1	33.5	2.6	3.5	1.3	2.6	1.9	0.7	32.0	40.3
South Africa	53.8	50.2	7.2	9.8	3.6	3.2	6.0	2.3	70.6	65.5
Other A frica	35.8	22.7	4.3	7.0	3.9	2.5	5.7	2.3	49.8	34.6
USA	127.5	121.3	21.3	31.3	82.1	107.8	23.4	26.8	254.3	287.3
Canada	18.6	25.4	6.9	7.5	14.3	17.3	3.6	4.5	43.3	54.6
Other A merica	10.4	18.2	3.3	5.8	8.3	10.3	3.5	5.1	25.6	39.4
Japan	19.4	19.8	2.9	5.3	9.5	11.1	7.4	6.1	39.1	42.4
India	44.0	71.9	19.0	17.4	41.9	53.6	15.3	22.2	120.3	165.1
Middle East	24.2	25.3	11.1	10.7	8.4	6.8	5.7	3.4	49.4	46.2
China	24.3	44.5	14.9	19.3	70.2	86.7	22.4	41.7	131.9	192.3
Other Asia	21.4	23.0	6.8	7.9	13.0	10.8	4.4	4.3	45.5	45.9
Australia & New Zealand	18.3	23.9	7.0	23.2	17.0	20.0	4.6	4.0	46.9	71.1
All Other Countries	42.9	107.6	28.9	87.0	17.7	28.6	8.0	24.2	97.5	247.4
TOTAL	1,521.4	1,672.8	2,661.1	3,053.3	755.4	835.4	1,510.6	1,612.7	6,448.5	7,174.2
PERCENTAGE SHARE	23.6	23.3	41.3	42.6	11.7	11.6	23.4	22.5	100.0	100.0

<sup>\*</sup> Provisional

12.16. As shown in Table 12.8, increased activities were recorded in accommodation facilities located in national parks as illustrated by the number of bed-nights occupied and type of catering offered. Bed-nights occupied in game lodges improved significantly from 755.4 thousand in 2016 to 835.4 thousand in 2017, representing 10.6 per cent rise. Occupancy in game reserves contracted to 334.6 thousand in 2017 mainly associated with reduced visitors to the Masai Mara game reserve. Over two thirds of total bed-nights occupied were by foreign residents that grew by 22.2 per cent to 551.4 thousand in 2017. Bed-nights occupied by East African residents declined from 304.4 thousand in 2016 to 284.0 thousand in 2017. The number of foreign residents that opted for full catering services increased from 382.3 thousand in 2016 to 493.2 thousand in 2017.

Table 12.8: Game Lodges<sup>1</sup> Occupancy, 2015 - 2017

									'000	
	Bed-Nights Occupied									
	Foreign Residents			E.	E.A. Residents			Total		
	2015	2016	2017*	2015	2016	2017*	2015	2016	2017*	
Game Reserves	117.3	176.5	170.4	175.7	187.7	164.2	293.0	364.2	334.6	
National Parks	205.8	274.6	381.0	128.0	116.6	119.8	333.7	391.2	500.8	
TOTAL	323.1	451.1	551.4	303.7	304.4	284.0	626.7	755.4	835.4	
Of which full Catering	304.6	382.3	493.2	230.8	217.2	176.4	535.4	599.5	669.7	
Self Service	18.5	68.7	58.2	72.8	87.2	107.6	91.3	155.9	165.8	

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup>Persons staying one month or more in one hotel, including some block bookings for air crew

<sup>&</sup>lt;sup>2</sup>Lodges in National Parks and Game Reserves

<sup>&</sup>lt;sup>1</sup>Lodges in National Parks and Game Reserves

National 12.17. Table 12.9 presents the number of visitors to national parks and game reserves from Parks and 2013 to 2017. The number of visitors to these attraction sites rose by 2.6 per cent from 2,284.7 **Game** thousand in 2016 to 2,345.2 thousand in 2017. The number of visitors to the Impala Sanctuary, Reserves Nairobi Mini Orphanage, Lake Nakuru, Hell's Gate, Nairobi Safari Walk and Nairobi had over 150 thousand visitors each, jointly accounting for 55.9 per cent of all visitors to national parks and game reserves, in 2017. Visitors to Tsavo East recorded a significant growth of 42.1 per cent in 2017. However, the number of visitors to Lake Bogoria, Impala Sanctuary and Meru national parks declined by 25.6, 21.9 and 15.7 per cent, respectively, in the year under review. Other declines were recorded in the Nairobi Mini Orphanage, Masai Mara and Haller's Park.

Table 12.9: Number of Visitors to National Parks and Game Reserves, 2013-2017

					'000
Park/Reserve	2013	2014	2015	2016	2017*
Nairobi	154.7	131.8	133.1	153.1	154.5
Nairobi Safari Walk	136.0	133.0	139.2	149.3	165.9
Nairobi Mini Orphanage	407.4	361.3	328.2	390.4	367.7
Amboseli	141.2	117.1	86.9	114.6	145.5
Tsavo (West)	68.8	51.0	31.8	50.2	55.3
Tsavo (East)	153.2	103.2	75.2	84.8	120.5
Aberdare	50.1	43.8	34.7	41.3	43.7
Lake Nakuru	262.5	226.0	188.9	214.7	216.0
Masai Mara	103.8	166.0	146.9	146.3	132.7
Haller's Park	121.5	116.2	115.4	121.1	117.9
Malindi Marine	41.9	28.9	29.3	31.5	31.6
Lake Bogoria	91.5	80.5	71.4	90.8	67.6
Meru	14.7	19.2	17.3	19.8	16.7
Shimba Hills	23.2	17.6	17.2	21.2	24.0
Mt. Kenya	24.6	20.2	18.5	19.1	20.2
Samburu	13.5	15.4	8.5	10.8	11.1
Kisite/Mpunguti	44.7	29.7	24.8	34.4	38.4
Mombasa Marine	36.8	27.4	26.2	29.5	32.2
Watamu Marine	35.1	31.3	24.3	33.9	43.5
Hell's Gate	89.0	114.1	120.2	154.4	206.5
Impala Sanctuary(Kisumu)	222.3	227.6	212.1	256.5	200.2
Mt. Longonot	43.6	50.7	53.3	64.5	88.0
Others 1	57.5	52.6	49.5	52.6	45.6
TOTAL	2,337.7	2,164.6	1,952.8	2,284.7	2,345.2

Source: Kenya Wildlife Services

12.18. Kenya citizens (adults and children) continued to constitute the largest number of visitors to national parks and game reserves in 2017 as presented in Figure 12.5. Among the non-residents, adults constituted the highest number of visitors to national parks and game reserves in 2017. However, the number of student visitors to the parks and game reserves contracted in 2017 compared to 2016.

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup>Others include Arabuko Sokoke, Ol-Donyo Sabuk, Marsabit, Saiwa swamp, Sibiloi, Bamburi, Chyulu, Ruma National Park, Mwea National Reserve, Central Island National Park, Kiunga, Mt.Elgon, Nasolot, Ndere and Kakamega.

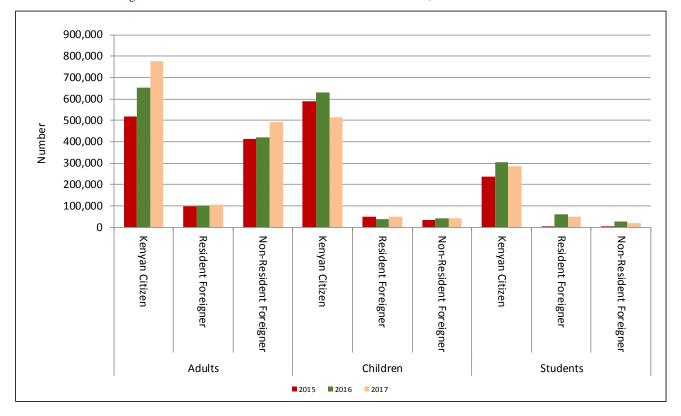


Figure 12.5: Visitors to National Parks and Game Reserves, 2015-2017

Note: Residents refers to foreigners expecting and/or have stayed in Kenya for more than 12 months

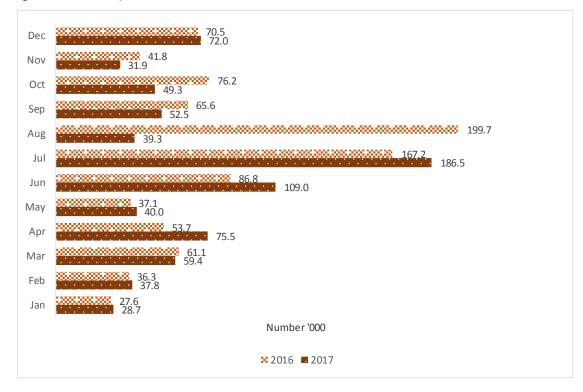
Museums, Snake Parks and Historical Sites 12.19. The number of visitors to museums, snake parks and historical sites from 2013 to 2017 is shown in Table 12.10. The number of visitors to these attractions declined by 15.3 per cent from 923.5 thousand in 2016 to 782.0 thousand in 2017. Visitors to Kisumu and Nairobi National museums dropped by 35.7 and 20.0 per cent, respectively, during the year under review. However, visitors to Karen Blixen museum increased by 18.4 per cent to record 42.4 thousand visitors in 2017. Similarly, visitors to Kariandusi museum increased by 13.0 per cent from 12.3 thousand in 2016 to 13.9 thousand in 2017. The highest number of visitors to museums, snake parks and historical sites were recorded in July 2017 although August had the peak in 2016 as depicted in Figure 12.6.

Table 12.10: Number of Visitors to Museums, Snake Parks and Historical Sites, 2013-2017

					'000
Name of Museums	2013	2014	2015	2016	2017*
Nairobi National	130.9	52.5	264.0	278.7	222.9
Nairobi Snake Park	94.8	33.0	24.0	26.1	28.7
Fort Jesus	152.1	113.4	121.3	150.5	130.5
Kisumu	151.2	219.4	210.6	199.2	128.1
Kitale	54.3	64.8	33.5	55.8	62.8
Gede	54.6	47.5	39.9	55.6	62.6
Meru	26.3	32.8	23.7	19.9	16.9
Lamu	2.8	1.7	1.5	2.7	2.9
Jumba la Mtwana	7.4	5.7	4.3	7.3	7.3
Olorgessaile		2.7	1.1	0.4	2.0
Kariandusi	4.3	24.2	11.4	12.3	13.9
Hyrax Hill	5.9	11.6	8.7	29.1	20.7
Karen Blixen	44.7	45.2	25.9	35.8	42.4
Malindi	26.1	21.0	14.7	31.8	22.1
Kilifi Mnarani	0.8	2.5	1.2	0.8	1.9
Kabarnet	1.6	1.7	1.4	3.4	2.1
Kapenguria	8.7	9.7	7.3	12.4	11.5
Pete Sites	0.0	0.0	-	-	-
Swahili House	0.3	0.3	0.0	0.1	0.2
Narok	0.6	0.6	0.5	0.9	0.3
German Post	0.1	0.1	0.0	0.0	0.0
Takwa Ruins	0.6	0.6	0.2	0.4	1.4
Koobi Fora	0.0				
Rabai	2.7		2.4		
Thimlich Ohinga	0.1			••	
Lamu Port				0.4	0.9
TOTAL	770.8	690.9	797.5	923.5	782.0

Source: National Museums of Kenya

Figure 12.6: Monthly Number of Visitors to Museums, Snake Parks and Historical Sites, 2016-2017



<sup>\*</sup> Provisional

<sup>..</sup> Data not available

**Conference** 12.20. Indicators on conference tourism for the period 2015 to 2017 are presented in Table 12.11. The number of international conferences and delegates declined by 15.9 and 36.8 per cent, respectively, in 2017. This was attributable to prolonged political activities that hindered smooth operations in international conference tourism. In addition, the regular travel advisories issued by some source markets also lowered the momentum of incoming international delegates. On the contrary, local conferences and delegates increased by 2.4 and 17.1 per cent, respectively, in 2017, partly on account of numerous political strategy activities held in the review period. Conference capacity utilization dropped from 11.6 per cent in 2016 to 11.5 per cent in 2017.

Table 12.11: Indicators on Conference Tourism, 2015-2017

						Number	
	2015		2	016	2017*		
	Local	International	Local	International	Local	International	
No.of conferences	3,199	218	3,755	227	3,844	191	
No.of delegates	465,116	71,620	532,674	101,599	623,749	64,167	
No.of delegate days	561,374	124,633	634,234	166,802	693,159	120,348	
No.of delegate days available .	6,168,945	6,168,945	6,859,714	6,859,714	7,090,986	7,090,986	
Percentage Occupancy	9.1	2.0	9.2	2.4	9.8	1.7	

<sup>\*</sup> Provisional

# Training in Hospitality

12.21. The Kenya Utalii College (KUC) has continued to offer trainings to middle and highlevel work force for the country's hospitality industry over the years. During the review period, the number of graduates who pursued various courses at KUC rose from 2,664 in 2016 to 2,861 as shown in Table 12.12. This was mainly attributed to an increase in the number of graduates who pursued refresher courses that grew by 11.5 per cent to 1,249. Similarly, graduates who pursued short courses rose by 8.7 per cent from 835 in 2016 to 908 in the review period.

Table 12.12: Kenya Utalii College Graduates, 2013-2017

						Number		
	In- Service	Courses	Profe	Professional Courses				
Year	Refresher	M DP <sup>1</sup>	Regular	Short	Sub-	Grand Total		
	Courses	MDP	Courses	Courses	Total	Total		
2013	1,450	252	541	758	1,299	3,001		
2014	936	237	593	584	1,177	2,350		
2015	813	258	517	736	1,253	2,324		
2016	1,120	242	467	835	1,302	2,664		
2017*	1,249	255	449	908	1,357	2,861		

Source: Kenya Utalii College

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup>MDP - Management Development Programmes

# Transport and Storage

# Chapter

## **Overview**

n efficient and effective transport system is a springboard for rapid and sustained economic development. During the period under review, the Government initiated a number of projects and programmes in the various transport sub-sectors including road, rail, air, maritime and non-motorised transport aimed at improving the transport system. Overall, the output of the transport and storage sector expanded by 8.8 per cent to KSh 1,115.7 billion in 2017. Output from road transport increased by 5.7 per cent to KSh 702.1 billion and accounted for 62.9 per cent of the total output in the sector in 2017.

13.2. Total cargo throughput handled at the Mombasa Port increased by 10.6 per cent from 27.4 million tonnes in 2016 to 30.3 million tonnes in 2017, with imports handled accounting for 84.6 per cent. Total import traffic handled at the Port grew by 10.8 per cent to 25.6 million tonnes while export traffic handled expanded by 2.7 per cent to 3.8 million tonnes in 2017. During the same period, the number of domestic passengers travelling by air declined by 0.7 per cent to 3,991.2 thousand passengers while international passengers increased by 6.0 per cent to 6,121.3 thousand passengers. The volume of white petroleum products transported through pipeline rose by 10.8 per cent from 5,557.9 thousand cubic metres in 2016 to 6,155.7 thousand cubic metres in 2017. At the same time, the number of reported road traffic accidents dropped by 15.9 per cent to 4,452.

Value of 13.3. Table 13.1 presents the value of output for the transport and storage sector from 2013 to Output 2017. Overall, the value of output for the sector expanded by 8.8 per cent from KSh 1,025.8 billion in 2016 to KSh 1,115.7 billion in 2017. The value of output from road transport increased by 5.7 per cent to KSh 702.1 billion, accounting for 62.9 per cent of the total output in the sector during the same period. Output from air transport sub-sector increased by 14.9 per cent to KSh 183.1 billion while that of services incidental to transport increased by 28.3 per cent to KSh 107.8 billion in the review period. On the other hand, output from the railway transport sub-sector declined by 8.8 per cent from KSh 5.7 billion in 2016 to KSh 5.2 billion in 2017.

Table 13.1: Transport and Storage - Value of Output, 2013 - 2017

					KSh Million
	2013	2014	2015+	2016+	2017*
Road Transport	520,915	595,726	629,045	664,484	702,127
Railway Transport	4,849	5,357	6,282	5,662	5,202
Water Transport	36,537	49,840	55,712	60,845	63,823
Air Transport	131,456	139,912	147,447	159,319	183,033
Services Incidental to Transport	51,930	54,097	68,246	83,996	107,841
Pipeline Transport	19,861	21,030	22,210	24,061	25,140
Postal & Courier Services	10,654	27,179	27,925	27,464	28,497
Total	776,202	893,141	956,867	1,025,831	1,115,665

<sup>\*</sup> Provisional.

# Road Transport

13.4. Details on road maintenance funds approved by Kenya Roads Board (KRB) from 2013/14 to 2017/18 are shown in Table 13.2. The disbursement of funds from KRB to various road agencies for maintenance of roads is projected to increase by 5.0 per cent from KSh 60.5 billion in 2016/17 to KSh 63.5 billion in 2017/18 mainly on account of the fuel levy. Collections from fuel levy are expected to increase by 5.0 per cent from KSh 60.0 billion in 2016/17 to KSh 63.0 billion in 2017/18 while those from transit toll are expected to reach KSh 474 million in 2017/18. The increase in fuel levy rate from KSh 12 per litre in June 2015 to KSh 18 per litre in June 2016 partly explains the increased collections from KSh 31.8 billion in 2015/16 to KSh 60.0 billion in 2016/17.

Table 13.2: Road Maintenance Funds, 2013/14 - 2017/18

					KSh Million
	2013/14	2014/15	2015/16	2016/17*	2017/18**
Fuel Levy	24,725	25,461	31,823	60,000	63,000
Transit Toll	450	464	464	469	474
Total	25,175	25,924	32,287	60,469	63,474

Source: Kenya Roads Board

13.5. Earnings from road traffic increased by 5.7 per cent from KSh 664.5 billion in 2016 to KSh 702.1 billion in 2017 as presented in Table 13.3. Earnings from freight traffic rose by 6.3 per cent to KSh 352.2 billion in 2017, while that from passenger traffic increased by 5.0 per cent to KSh 350.0 billion in the same period.

Table 13.3: Earnings from Road Traffic, 2013 - 2017

					KSh Million
	2013	2014	2015	2016	2017*
Passenger Traffic	274,863	313,031	322,161	333,114	349,941
Freight Traffic+	245,676	282,695	306,884	331,370	352,186
Total Road Traffic Earnings	520,539	595,726	629,045	664,484	702,127

<sup>\*</sup> Provisional.

<sup>+</sup>Revised

<sup>\*</sup> Provisional.

<sup>\*\*</sup> Estimates

<sup>+</sup>Revised

**Motor Cycles** 

New 13.6. Table 13.4 presents the number of new registered motor vehicles and motor cycles for **Registration** the period 2013 to 2017. During the review period, the number of units registered increased of Motor by 32.3 per cent from 213,715 in 2016 to 282,672 in 2017 mainly attributed to a surge in the **Vehicles and** number of motor cycle registrations.

# **Motor Vehicles**

13.7. Registration of vehicles except station wagons and wheeled tractors continued on a downward trend since 2015 as presented in Table 13.4. However, the total number of newly registered motor vehicles increased by 895 units from 90,176 in 2016 to 91,071 in 2017. The number of newly registered station wagons increased by 19.9 per cent to 55,322 while wheeled tractors increased by 9.1 per cent to 2,703 in 2017. The number of newly registered saloon cars dropped by 8.9 per cent from 12,490 in 2016 to 11,376 in 2017. Similarly, the number of newly registered panel vans and pick-ups decreased by 22.4 per cent to 9,866 in 2017.

13.8. The number of newly registered lorries and trucks declined by 22.5 per cent from 9,632 in 2016 to 7,460 in 2017. Similarly, the number of newly registered buses and coaches decreased by 39.3 per cent to 1,072 units during the review period. The number of newly registered trailers fell from 2,829 in 2016 to 1,953 in 2017 while that of mini buses/matatus dropped by 11.6 per cent from 519 in 2016 to 459 in 2017.

# **Motor cycles**

13.9. The number of newly registered motor cycles went up by 55.1 per cent from 123,539 units in 2016 to 191,601 units in 2017. This was occasioned by a 55.7 per cent rise in the number of registered motor and auto cycles over the review period. The number of newly registered three wheelers increased by 35.4 per cent from 3,815 units in 2016 to 5,167 units in 2017. The increased number of new registrations for motorcycles is partly explained by the removal of excise duty on motor cycle imports in September 2016.

Table 13.4: New Registration of Road Motor Vehicles and Motor Cycles, 2013 - 2017

Number 2013 2014 2015 2016 2017\* Type of Vehicle/Motor Cycle 15,902 14,369 12,490 11,376 Saloon Cars..... 16,343 Station Wagons..... 48,662 53,542 54,120 46,123 55,322 PanelVans, Pick-ups, etc..... 9,819 12,568 13,878 12,722 9,866 Lorries/Trucks..... 9,570 10,681 13,785 9,632 7,460 Buses and Coaches.... 2,062 2,210 2,342 1,765 1,072 Mini Buses/Matatu..... 235 581 519 459 213 Trailers.... 2,925 3,905 2,829 3,973 1,953 2,259 Wheeled Tractors..... 1,902 2,032 2,478 2,703 Other vehicles..... 1,451 2,533 2,522 1,618 860 **Total Motor Vehicles** 94,017 102,606 107,761 90,176 91,071 Motor and Auto Cycles..... 125,058 111,124 134,645 119,724 186,434 3,103 4,327 3,815 Three Wheelers..... 4,775 5,167 **Total Motor Cycles** 128,161 115,451 139,420 123,539 191,601 **Total Units Registered** 222,178 218,057 247,181 213,715 282,672

Source: National Transport and Safety Authority

<sup>\*</sup> Provisional.

# Road Licenses

13.10. The number of PSV licenses issued by the National Transport and Safety Authority increased by 61.0 per cent from 33,349 in 2016 to 53,692 in 2017 as presented in Table 13.5. The number of PSV licenses issued to matatus more than doubled from 17,926 in 2016 to 37,382 in 2017 and constituted 69.6 per cent of all PSV licenses issued in the review period. The number of PSV licenses issued to buses increased by 67.3 per cent from 7,210 in 2016 to 12,064 in 2017. Passenger service vehicle licenses issued to mini buses almost halved from 8,213 in 2016 to 4,246 in 2017.

13.11. The number of driving licenses issued more than doubled from 123,386 in 2016 to 291,151 in 2017. Original driving licenses issued more than doubled to 219,333 and accounted for 75.3 per cent of the total driving licenses issued in 2017. Duplicate driving licenses increased substantially from 26,956 in 2016 to 70,689 in 2017. However, the number of foreign driving licenses issued declined by 61.1 per cent to 1,129 in 2017.

Table 13.5: Road Transport Licenses Issued, 2013 – 2017

					Number
Type of License	2013	2014	2015	2016	2017*
PSV Licenses					
Matatus (0-14 seaters)	9,545	15,936	17,138	17,926	37,382
Buses (34 and above seaters)	3,792	5,155	6,182	7,210	12,064
Mini Buses <sup>1</sup> (15-33 seaters)	3,350	6,062	7,186	8,213	4,246
Total	16,687	27,153	30,506	33,349	53,692
Driving Licenses					
Original	90,519	88,666	91,336	93,528	219,333
Duplicate	23,069	24,563	25,854	26,956	70,689
Foreign	2,671	2,737	2,826	2,902	1,129
Total	116,259	115,966	120,016	123,386	291,151

Source: National Transport and Safety Authority

# Road Traffic Accidents

13.12. The number of reported road traffic accidents declined by 15.9 per cent from 5,296 in 2016 to 4,452 in 2017 as shown in Table 13.6 and Figure 13.1. Similarly, the number of reported casualties from the accidents decreased by 14.8 per cent from 13,159 in 2016 to 11,215 in 2017. Road traffic accident fatalities and persons seriously injured declined by 1.6 per cent to 2,919 and 15.4 per cent to 3,943 respectively, in 2017. The number of persons who were slightly injured declined by 21.3 per cent to 4,353 during the same period.

Table 13.6: Reported Road Traffic Accidents, 2013 - 2017

					Number
	2013	2014	2015	2016	2017*
Total Number of Reported Traffic Accidents	6,205	5,672	5,310	5,296	4,452
Persons Killed or Injured:-	14,324	12,018	12,138	13,159	11,215
of which:					
Killed	3,191	2,907	3,057	2,965	2,919
Seriously Injured	6,299	5,140	4,731	4,661	3,943
Slightly Injured	4,834	3,971	4,350	5,533	4,353

Source: Kenya Police, Traffic Department

<sup>\*</sup> Provisional.

<sup>&</sup>lt;sup>1</sup> Includes Tour Vans

<sup>\*</sup> Provisional.

13,159 14,000 11,215 12,000 10,000 Numnber 8,000 5,296 4,452 5,533 6,000 4,66<u>1</u> 3,943 2,965 4,353 4,000 2,000 Reported Casualties Killed Seriously Slightly Traffic Injured Injured Accidents 2016 2017

Figure 13.1: Reported Traffic Accidents and Casualties, 2016 - 2017

Railway 13.13. The performance of the railway transport sub-sector is presented in Table 13.7. Freight Transport traffic decreased by 16.9 per cent from 1,380 thousand tonnes in 2016 to 1,147 thousand tonnes in 2017 due to operational challenges faced by Rift Valley Railways (RVR). Revenue from freight decreased by 37.5 per cent from KSh 4.8 billion in 2016 to KSh 3.0 billion in 2017. Passenger journeys increased by 10.8 per cent from 2,793 thousand in 2016 to 3,096 thousand in 2017. Earnings from passenger traffic increased more than five times from KSh 134 million in 2016 to KSh 700 million in 2017. The overall increase in passenger journeys and revenue from passenger service is mainly due to the Standard Gauge Railway (SGR) passenger service that commenced in the second half of 2017. The number of passengers handled by the SGR was 689,205 while revenue earned from the SGR passenger service stood at KSh 590.2 million at the end of 2017.

Table 13.7: Railway Traffic+, 2013 - 2017

	Unit	2013	2014	2015	2016	2017*
Freight:						
Tonnes	000	1,444	1,509	1,542	1,380	1,147
Tonne-km	Million	862	1,169	1,283	1,141	857
Revenue	KSh Million	4,638	5,195	6,183	4,793	3,001
Revenue per tonne-Km	KSh	5.38	4.44	4.82	4.20	3.50
Passenger:						
Journeys	000	3,785	3,715	2,288	2,793	3,096
Passenger-Km	Million	194	176	99	113	120
Revenue	KSh Million	181	162	98	134	700
Revenue per passenger-Km	KSh	0.93	0.92	0.99	1.18	5.84

Source: Kenya Railways Corporation

Water 13.14. Total cargo throughput handled at the Mombasa Port increased by 10.6 per cent from **Transport** 27.4 million tonnes in 2016 to 30.3 million tonnes in 2017, as shown in Table 13.8. The total number of vessels that docked at the Port increased by 10.0 per cent from 1,607 in 2016 to 1,767 in 2017. This resulted in a 9.0 per cent increase in the volume of container traffic handled to 1.2 million Twenty-foot Equivalent Units (TEUs) during the review period.

<sup>\*</sup> Provisional

Table 13.8: Traffic Handled at Mombasa Port, 2013 - 2017

	Unit	2013	2014	2015	2016	2017*
Container Traffic	TEUs	894,000	1,012,002	1,076,118	1,091,371	1,189,957
Ships Docking	No.	1,768	1,832	1,694	1,607	1,767
Imports						
Dry General	000' DWT	7,700	8,354	9,099	8,992	9,505
Dry Bulk	"	4,913	5,231	6,350	6,447	7,920
Bulk Liquids	"	6,537	7,192	7,232	7,677	8,179
Total Imports	11	19,150	20,777	22,681	23,116	25,604
Of which Transit In	"	6,338	6,691	7,126	7,217	7,903
Motor Vehicles landed	No.	136,915	157,856	143,833	97,726	114,133
Exports						
Dry General	000' DWT	2,818	2,899	2,915	3,022	3,167
Dry Bulk	"	65	422	578	606	547
Bulk Liquids	11	100	45	40	51	80
Total Exports	"	2,983	3,366	3,533	3,679	3,794
Of which Transit Out	"	513	508	541	531	734
Total Imports and Exports	11	22,133	24,143	26,214	26,775	29,398
Trans-shipment	11	174	732	518	589	874
Grand Total	"	22,307	24,875	26,732	27,364	30,272

Source: Kenya Ports Authority

DWT - Dead Weight Tonnes

13.15. The total import traffic handled grew by 10.8 per cent from 23.1 million tonnes in 2016 to 25.6 million tonnes in 2017. Imports of dry bulk cargo increased by 23.4 per cent from 6.4 million tonnes in 2016 to 7.9 million tonnes in 2017 while that of general dry cargo increased by 5.6 per cent to 9.5 million tonnes during the same period. The volume of bulk liquid imports increased by 6.5 per cent to 8.2 million tonnes in 2017. The number of motor vehicles landed increased by 16.8 per cent to 114,133 in 2017, reversing the observed declining trend in the last two years.

13.16. Total export traffic handled at the Port of Mombasa expanded by 2.7 per cent from 3.7 million tonnes in 2016 to 3.8 million tonnes in 2017. Dry general export cargo increased by 4.8 per cent to 3.2 million tonnes while dry bulk export cargo declined by 9.7 per cent to 0.5 million tonnes in 2017. There was however, a significant growth in the exports of bulk liquids from 51 thousand tonnes in 2016 to 80 thousand tonnes in 2017. The increase in liquid bulk exports was as a result of increased oil and gas exports and bunkering activities. The volume of trans-shipment cargo increased from 589 thousand tonnes to 874 thousand tonnes in 2017 mainly due to removal of trans-shipment bond requirements during the review period.

# Pipeline Transport

13.17. Table 13.9 presents the volume of white petroleum products transported through pipeline for the period 2013 to 2017. Pipeline throughput rose by 10.8 per cent from 5,557.9 thousand cubic metres in 2016 to 6,155.7 thousand cubic metres in 2017. The volume of exports of white petroleum products rose by 6.9 per cent to 1,981.8 thousand cubic metres during the review period.

<sup>\*</sup> Provisional.

13.18. Throughput for domestic consumption increased by 3.9 per cent from 4,018.6 thousand cubic metres in 2016 to 4,173.9 thousand cubic metres in 2017. The volume of premium motor spirit transported for domestic consumption increased by 4.3 per cent from 1,177.6 thousand cubic metres in 2016 to 1,228.8 thousand cubic metres in 2017. During the review period, the volume of light diesel oil and jet fuel oil transported via the pipeline for domestic consumption increased by 5.1 per cent and 3.3 per cent, respectively. The volume of kerosene illuminating oil dropped slightly to 446.9 thousand cubic metres in 2017.

**Table 13.9: Pipeline Throughput of White Petroleum Products, 2013 – 2017** 

				'000 C	Cubic Metres
	2013	2014	2015	2016	2017*
Exports <sup>1</sup>					
Motor Spirit (Premium)	688.6	726.0	757.0	696.3	744.2
Kerosene Illuminating Oil	86.1	75.8	70.1	66.2	60.4
Light Diesel Oil	979.1	916.1	936.9	857.2	938.8
	198.3	267.6	262.4	234.6	238.4
Sub-Total	1,952.1	1,985.5	2,026.4	1,854.3	1,981.8
Domestic Consumption <sup>2</sup>					
Motor Spirit (Premium)	897.5	1,028.8	1,103.4	1,177.6	1,228.8
Motor Spirit (Regular)	1.3	-	-	-	-
Kerosene Illuminating Oil	353.8	362.9	396.5	450.1	446.9
Light Diesel Oil	1,174.0	1,314.2	1,372.6	1,537.4	1,616.4
Jet Fuel	792.7	866.5	813.2	853.5	881.8
Sub-Total	3,219.3	3,572.4	3,685.7	4,018.6	4,173.9
Grand Total	5,171.4	5,557.9	3,712.1	5,557.9	6,155.7

Source: Kenya Pipeline Company

Note: The figures may differ from those in Chapter 9 (Energy) due to different definition and classification of throughput in the context of international trade. Furthermore Chapter 9 data are in '000 tonnes whereas conversion of cubic metres to tonnes varies with product.

Air 13.19. Passenger traffic: Information on commercial passenger traffic by airport for the period Transport 2013 to 2017 is presented in Table 13.10. The total number of passengers increased by 3.5 per cent from 9.8 million in 2016 to 10.1 million in 2017. During the review period, the number of domestic passengers handled was 3,991.2 thousand while that of international passengers was 6,121.3 thousand. International passenger arrivals increased by 7.0 per cent from 2.8 million in 2016 to 3.0 million in 2017 while international passenger departures increased by 6.8 per cent from 1.7 million in 2016 to 1.8 million in 2017. The number of international passengers on transit increased by 2.7 per cent from 1,217.8 thousand in 2016 to 1,251.3 thousand in 2017.

> 13.20. The number of passengers handled at Jomo Kenyatta International Airport (JKIA) increased by 2.2 per cent to 7.3 million in 2017 while those handled at Mombasa International Airport (MIA) remained at 1.2 million during the review period. The number of passengers handled in other airports increased from 1.4 million in 2016 to 1.6 million in 2017.

<sup>\*</sup> Provisional.

<sup>1</sup> Exports in this table implies transit petroleum products destined to neighbouring countries and are different from exports reported in Chapter 6: International Trade and Balance of Payments

<sup>&</sup>lt;sup>2</sup>Excludes fuels transported by Kenya Railways or consumed in the Coastal region.

Table 13.10: Commercial Passenger Traffic¹ by Airport, 2013 - 2017

'000 Number

					Other	Total Passenger
Year	Category	Sub-Category	JKIA	MIA	Airports	Traffic
	Domestic	Arrivals	602.4	370.5	443.6	1,416.5
		Departures	408.3	361.5	418.1	1,187.9
		Sub-Total	1,010.7	732.0	861.7	2,604.4
	International		2,403.8	210.0	12.7	2,626.5
2013		Departures	1,380.2	234.0	18.2	1,632.4
		In Transit	1,152.2	103.2	112.9	1,368.3
		Sub-Total	4,936.2	547.2	143.8	5,627.2
	Total		5,946.9	1,279.2	1,005.5	8,231.6
	Domestic	Arrivals	761.3	438.5	495.1	1,694.9
		Departures	550.9	420.1	472.2	1,443.2
		Sub-Total	1,312.2	858.6	967.3	3,138.1
2014	International	Arrivals	2,491.4	220.4	10.7	2,722.5
2014		Departures	1,501.8	199.0	15.7	1,716.5
		In Transit	1,081.1	88.5	135.3	1,304.9
		Sub-Total	5,074.3	507.9	161.7	5,743.9
	Total		6,386.5	1,366.5	1,129.0	8,882.0
	Domestic	Arrivals	823.8	458.8	564.0	1,846.6
		Departures	579.2	443.8	551.1	1,574.1
		Sub-Total	1,403.0	902.6	1,115.1	3,420.7
2017	International	Arrivals	2,523.1	126.9	7.2	2,657.2
2015		Departures	1,390.7	118.1	10.8	1,519.6
		In Transit	1,163.6	84.4	147.7	1,395.7
		Sub-Total	5,077.4	329.4	165.7	5,572.5
	Total		6,480.4	1,232.0	1,280.8	8,993.2
	Domestic	Arrivals	900.6	479.9	716.8	2,097.2
		Departures	739.0	478.5	704.9	1,922.4
		Sub-Total	1,639.5	958.4	1,421.7	4,019.6
2016	International	Arrivals	2,682.4	140.1	8.8	2,831.3
2016		Departures	1,571.7	139.4	12.0	1,723.1
		In Transit	1,217.8	0.0	0.0	1,217.8
		Sub-Total	5,472.0	279.5	20.8	5,772.3
	Total		7,111.5	1,237.9	1,442.5	9,791.9
	Domestic	Arrivals	807.4	469.4	792.3	2,069.0
		Departures	669.0	474.6	778.6	1,922.2
		Sub-Total	1,476.3	944.0	1,570.9	3,991.2
2017*	International	Arrivals	2,868.3	149.1	11.8	3,029.2
2017*		Departures	1,675.0	153.5	12.4	1,840.8
		In Transit	1,251.3	0.0	0.0	1,251.3
		Sub-Total	5,794.5	302.6	24.2	6,121.3
	Total	•	7,270.8	1,246.6	1,595.1	10,112.5

Source: Kenya Airports Authority

13.21. **Cargo and Mail Traffic:** Table 13.11 presents the volume of commercial cargo and mail traffic handled at the various airports from 2013 to 2017. Volume of commercial cargo traffic handled increased by 16.6 per cent from 249.5 million tonnes in 2016 to 290.8 million tonnes in 2017. Cargo handled at JKIA increased by 18.0 per cent to 273.0 thousand tonnes

<sup>\*</sup> Provisional

 $<sup>^{1}\,</sup>$  Passenger traffic in ludes residents

while that handled at MIA increased by 20.0 per cent to 3.6 thousand tonnes in 2017. There was a 13.8 per cent increase in the volume of mail traffic handled at all airports from 543.3 tonnes in 2016 to 617.0 tonnes in 2017. The volume of mail traffic handled at JKIA increased by 14.2 per cent to 614.2 tonnes in 2017. Mail traffic handled at MIA dropped from 5.3 tonnes in 2016 to 2.8 tonnes in 2017.

Table 13.11: Commercial Cargo and Mail Traffic by Airport, 2013 - 2017

Tonnes

			Cargo	Traffic		M	ail Traf	fic
Year	Category	JKIA	Other MIA Airports		Total Cargo	JKIA	MIA	Total Mail
	Landed	52,350.8	1,533.5	8,482.4	62,366.7	506.3	6.6	512.9
2013	Loaded	191,966.0	2,290.3	5,091.6	199,347.9	236.6	15.5	252.1
	Total	244,316.8	3,823.8	13,574.0	261,714.6	742.9	22.1	765.0
	Landed	52,336.2	1,833.7	10,472.0	64,641.9	421.2	2.3	423.5
2014	Loaded	206,291.3	2,711.1	5,736.4	214,738.8	94.5	7.2	101.7
	Total	258,627.5	4,544.8	16,208.4	279,380.7	515.7	9.5	525.2
	Landed	45,393.3	2,621.1	11,648.4	59,662.8	317.9	2.6	320.5
2015	Loaded	197,891.6	2,020.5	3,463.1	203,375.2	269.7	15.7	285.4
	Total	243,284.9	4,641.6	15,111.5	263,038.0	587.6	18.3	605.9
	Landed	32,916.2	1,684.8	11,926.6	46,527.6	247.8	1.8	249.6
2016	Loaded	198,344.0	1,295.9	3,321.8	202,961.7	290.2	3.5	293.7
	Total	231,260.2	2,980.7	15,248.4	249,489.3	538.0	5.3	543.3
	Landed	49,443.1	2,404.0	11,631.0	63,478.2	434.7	1.8	436.5
2017*	Loaded	223,565.7	1,194.6	2,533.2	227,293.6	179.5	1.0	180.5
	Total	273,008.8	3,598.6	14,164.2	290,771.8	614.2	2.8	617.0

Source: Kenya Airports Authority

Aircraft 13.22. Details on aircraft movements by type from 2013 to 2017 are shown in Table 13.12. Movements Overall, aircraft movements increased marginally from 344,571 in 2016 to 354,176 in 2017. Total landings increased by 1.4 per cent to 150,960 while total take-offs increased by 0.9 per cent to 150,368 in 2017. The number of over-flights however, increased by 13.1 per cent from 46,739 in 2016 to 52,848 in 2017.

> 13.23. Total domestic landings and take-offs increased by 1.5 per cent to 207,831 in 2017. Domestic landings increased by 1.7 per cent from 102,186 in 2016 to 103,922 in 2017. Similarly, the number of domestic take-offs increased by 1.3 per cent to 103,909 in 2017. Total international landings and take-offs rose marginally from 93,029 in 2016 to 93,497 in 2017. International landings increased from 46,685 in 2016 to 47,038 in 2017, while international take-offs increased from 46,344 to 46,459 during the same period. The share of domestic aircraft movements to total movements declined to 58.7 per cent in 2017 from 59.4 per cent recorded in 2016 while the share of international aircraft movements was 26.4 per cent during the review period. The share of over-flights however increased to 14.9 per cent in 2017 from 13.6 per cent recorded in 2016.

<sup>\*</sup> Provisional

Table 13.12: Aircraft Movements by Type, 2013 - 2017

						Number
Type	Movement	2013	2014	2015	2016	2017*
	Landings	87,457	89,820	89,611	102,186	103,922
Domestic	Take-offs	83,484	86,870	89,872	102,617	103,909
	Total	170,941	176,690	179,483	204,803	207,831
	Landings	42,935	45,602	43,689	46,685	47,038
International	Take-offs	45,528	47,893	43,061	46,344	46,459
	Total	88,463	93,495	86,750	93,029	93,497
	Landings	130,392	135,422	133,300	148,871	150,960
	Take-offs	129,012	134,763	132,933	148,961	150,368
Total	Sub-Total	259,404	270,185	266,233	297,832	301,328
	Over-flights	36,290	36,941	38,788	46,739	52,848
	Grand Total	295,694	307,126	305,021	344,571	354,176

Source: Kenya Civil Aviation Authority

**Licensed** 13.24. Overall, the number of active licensed air operators decreased by 14.5 per cent from 339 Air in 2016 to 290 in 2017 as shown in Table 13.13. The decline was reported for operators in all Operators categories except those engaged in domestic scheduled services and aerial works. Domestic non-scheduled operators decreased by 12.4 per cent and accounted for 48.6 per cent of the total licensed air operators in 2017. The number of tour charter operators dropped from 21 in 2016 to 5 in 2017. Other declines were recorded for international non-scheduled and scheduled licensed air operators at 25.0 and 3.8 per cent, respectively. The general decline in active licensed operators is partly attributed to non-renewal of licenses.

Table 13.13: Licensed Air Operators, 2013 – 2017

					Number
Operator	2013	2014	2015	2016	2017*
Domestic scheduled	38	33	36	38	39
Domestic non-scheduled	173	146	152	161	141
International scheduled	21	21	26	26	25
International non-scheduled	23	22	22	20	15
In clusive tour charters	30	22	21	21	5
Aerial work	38	36	40	39	44
Flying instructions	28	29	29	30	19
Selffly hire	-	4	5	4	2
Total	351	313	331	339	290

Source: Kenya Civil Aviation Authority

<sup>\*</sup> Provisional

<sup>\*</sup> Provisional

**Selected** 13.25. Selected aviation industry indicators from 2013 to 2017 are presented in Table 13.14. Aviation The number of aviation personnel licenses increased by 5.7 per cent from 9,059 in 2016 to **Industry** 9,577 in 2017. During the same period, the cabin crew member certificates increased by 7.6 **Indicators** per cent to 2,090, while the number of student pilot licenses increased by 6.6 per cent to 2,710. In the same period, the number of valid operational licenses decreased slightly from 1,279 in 2016 to 1,263 in 2017. The number of aircrafts with valid Certificate of Air Worthiness reduced to 749 and accounted for 59.3 per cent of the total operational licenses in 2017. On the other hand, the number of civil aviation inspectors and air traffic controllers increased by 7.1 per cent from 240 to 257 during the review period. The highest growth was recorded for air traffic controllers which increased from 159 in 2016 to 177 in 2017.

> 13.26. The number of aerodromes increased from 475 in 2016 to 491 in 2017 mainly due to the increase in the number of air strips during the review period. Heliports and helipads increased from 14 in 2016 to 20 in 2017 while the number of air strips increased to 440 and accounted for 89.6 per cent of the aerodromes in the review period. This development is due to efforts by the Government to ensure that every County is served by a functional air strip.

Table 13.14: Selected Aviation Industry Indicators, 2013 – 2017

					Number
	2013	2014	2015	2016	2017*
Aviation Personnel Licenses					
Air Transport Pilot Licence (ATPL)	888	928	975	1,062	1,116
Commercial Pilot Licence (CPL)	1,244	1,394	1,517	1,563	1,607
Private Pilot Licence (PPL)	969	1,070	1,276	1,255	1,316
Student Pilot Licence (SPL)	2,083	2,189	2,580	2,543	2,710
Cabin Crew Member Certificate (CMC)	1,631	1,814	1,906	1,942	2,090
Aircraft Maintainance Engineers (AMEL)	582	604	618	694	738
Total	7,397	7,999	8,872	9,059	9,577
Valid Operational Licenses					
$Aircraft\ with\ Valid\ Certificate\ of\ Air\ Worthin\ ess\ (COA)\dots$	658	705	751	763	749
Air Operator Certificates (AOCs)	78	78	70	70	87
Approved Maintainance Organisations (AMOS)	85	118	122	139	143
Approved Training Organisations (ATOS)	5	19	19	22	19
Flight Dispatcher Licence	91	127	177	208	186
Scheduled Airlines	76	76	77	77	79
Total	993	1,123	1,216	1,279	1,263
Aerodrome Category					
International-Class A	8	8	8	8	8
Domestic (Regional)- Class B	16	23	23	23	23
Air strips-Class C	426	430	430	430	440
Heliports/Helipads-Class D	-	6	6	14	20
Total	450	467	467	475	491
CAA Inspectors and Air Traffic Controllers					
AirTraffic Controllers (ATCOs)	172	170	165	159	177
Air Worthiness Inspectors	16	18	21	27	24
Flight Operations	11	11	15	20	21
Personnel Licensing	8	8	8	9	10
Others	27	26	26	25	25
Total	234	233	235	240	257

Source: Kenya Civil Aviation Authority

<sup>\*</sup> Provisional

# Postal Services

13.27. Details on the performance of postal services for the period 2013 to 2017 are presented in Table 13.15. There was a 2.6 per cent increase in the number of post offices from 623 in 2016 to 639 in 2017. This growth is attributed to opening of new postal outlets in some universities and other areas. The number of licensed courier operators rose by 3.9 per cent from 179 in 2016 to 186 in 2017. Similarly, the number of private courier operator outlets increased by 2.2 per cent from 976 in 2016 to 997 in 2017. During the same period, Expedited Mail Service Items (EMS) handled declined by 1.4 per cent from 1,977 thousand to 1,950 thousand.

13.28. Total registered and insured items posted, dropped by 4.3 per cent from 921 thousand in 2016 to 881 thousand in 2017 mainly on account of a 7.1 per cent decrease in the domestic component. The total number of unregistered correspondence handled decreased by 12.9 per cent to 61 million in 2017 partly explained by a 17.2 per cent drop in domestic unregistered correspondence posted. Likewise, parcels handled decreased by 15.0 per cent from 80 thousand in 2016 to 68 thousand in 2017. These declines are attributed to competition by other players. International parcels handled almost halved from 27 million registered in 2016 to 14 million in 2017. The total number of money orders issued is estimated to decrease by 18.7 per cent from 870 thousand in 2016 to 707 thousand in 2017. This is partly attributed to competition with mobile money transfer services which has negatively affected the use of postal financial services.

Table 13.15: Postal Services, 2013 – 2017

Item	Unit	2013	2014	2015	2016	2017*
Post Offices	No.	622	622	623	623	639
Private Courier Operator Outlets	No.	707	2,048	2,117	976	997
Licensed Courier Operators	No.	214	230	241	179	186
Total Private Letter Boxes:						
Installed	'000	432	432	432	422	444
Rented	'000	383	380	382	385	365
Private Bags Rented	No.	846	846	846	845	846
Total EMS Items Handled:	'000	1,483	1,801	1,840	1,977	1,950
Accepted	'000	772	933	916	990	1,000
Delivered	'000	711	868	924	987	950
Total Registered and Insured Items Posted:	'000	1,005	1,001	812	921	881
Domestic	'000	924	914	718	802	745
International	'000	81	87	94	119	136
Unregistered correspondence handled :	Millions	68	69	73	70	61
Domestic	Millions	63	64	67	64	53
International	Millions	5	5	6	6	8
Parcels handled :	'000	36	48	49	80	68
Domestic - Posted	'000	18	26	12	53	54
International - Posted	'000	18	22	17	27	14
Money Orders Issued <sup>1</sup>	'000	574	1,339	1,221	870	707
Domestic (IFS)	'000	501	500	453	439	420
PostaPay	'000	73	839	768	431	287
Inter-state (IFS)	'000	0.2	0.2	0.2	0.2	0.2

Source: Postal Corporation of Kenya/Communication Authority of Kenya

IFS - International Financial Services

<sup>\*</sup>Provisional

# **Storage** Container Freight Stations

13.29. The container freight stations provide additional storage space for containerized cargo at the Port of Mombasa. During the review period, the number of Container Freight Stations (CFS) remained constant at 15 stations with a capacity of 42,784 Twenty-foot Equivalent Units (TEUs).

# **Developments Road Transport**

in the 13.30. During the review period, the Nairobi Metropolitan Area Transport Authority **Transport and** (NAMATA) was created to deal with traffic congestion within the Nairobi metropolitan area. Storage Sector NAMATA is a policy intervention that provides a comprehensive and dynamic platform for addressing the challenges in the transport sector that have affected the Metropolitan Area. The Authority is expected to formulate a sustainable integrated public transport strategy based on the development of a sustainable urban mobility plan. This will form a basis for orderly and structured development of the proposed Metropolitan Area mass-transit system, which incorporates both bus rapid-transit and commuter rail.

# Railway Transport

13.31. The construction of commuter railway stations, aimed at improving the Nairobi Commuter Rail Services System was initiated in 2017. By the end of the review period, Ruiru, Kikuyu, Kahawa, Dandora and Githurai, Embakasi village, Athi River, Donholm, Mwiki and Pipeline stations were at different stages of completion.

13.32. The Phase I of the SGR project, which entailed the construction of the Mombasa – Nairobi section comprising 472 kilometres, was completed in 2017. Passenger service of the Standard Gauge Railway (SGR) was launched on 31st May 2017 and began commercial passenger operations on 1st June 2017. In addition, Kenya Railways Corporation carried out cargo evacuation test operations on the SGR from Mombasa to Nairobi Inland Container Depot (NICD) in preparation for commercial freight operations.

# **Maritime Transport**

13.33. During the review period, various programmes were initiated to improve maritime transport and to make Mombasa a regional port of choice. This includes development of Berth 20 and 21 and upgrading of the Nairobi Inland Container Depot (NICD). Further, to ease congestion at the Likoni Ferry crossing point, two ferries with capacity of 1,364 passengers and 60 motor vehicles were procured during the review period. In addition, the construction of three berths in Lamu Port was commenced.

# **Air Transport**

13.34. The sub-sector continued with the expansion and modernization of aviation facilities to enhance handling capacity of the airports and to support domestic air transport in the country. The aim of the Government is to ensure that every County is served by a functional air strip. The programme on the modernisation and expansion of air strips aims at providing air connectivity across the country and to support domestic air travel. Homa Bay (Kabunde), Suneka, Nanyuki, Voi (Ikanga) and Tseikuru air strips were under construction in 2017.

13.35. During the period under review, improved levels of safety and security enabled Kenya to be granted Federal American Administration (FAA) – Inter Air Security Association (IASA) category-1 by the United States of America which allows direct flight between the two countries. Kenya initiated the process of starting direct flights to the US with Kenya Airways scheduled to commence flights in October 2018. In an effort to expand route network for the Country's designated airlines, 8 new Bilateral Air Services Agreements (BASAs) were negotiated and concluded while 16 existing BASAs were reviewed during the same period.

# **Information and Communication Technology**

Chapter

Overview

The expansion of the digital economy has contributed to economic growth in recent years and has transformed society as a whole. It has spurred the economy by offering services through online platforms in; the provision of government services, business and e-commerce, research and transfer of knowledge, among others. The Government has continued to invest in the National Optic Fibre Backbone Infrastructure (NOFBI) across the country, with the aim of increasing cost-effective access to internet services. These developments led to the value of ICT output increasing by 10.9 per cent to KSh 345.1 billion in 2017.

14.2. In the period under review, mobile penetration measured by subscriptions improved to 91.9 per 100 inhabitants from 85.9 in 2016. Prepaid subscriptions per 100 inhabitants increased to 88.9 in 2017 from 82.8 in 2016. Mobile commerce transactions grew by 85.5 per cent from KSh 1.8 trillion in 2016 to KSh 3.2 trillion in 2017. Total mobile money transfers increased by 8.4 per cent from KSh 3,356 billion in 2016 to KSh 3,638 billion in 2017.

14.3. Volume of domestic traffic in minutes increased from 42.2 billion in 2016 to 44.1 billion in 2017. Similarly, the number of domestic short messaging services (SMS) sent increased by 41.9 per cent to 65.7 billion in 2017 from 46.3 billion in 2016. International telephone traffic decreased by 11.7 per cent from 1.2 billion in 2016 to 1.1 billion in 2017. The total wired and wireless internet subscriptions increased by 25.0 per cent to 33.4 million in 2017 from 26.7 million in 2016. Total digital subscriptions increased by 12.4 per cent to 4.9 million in 2017 from 4.4 million in 2016. The average price of a one minute mobile to mobile call declined marginally from KSh 3.08 in 2016 to KSh 3.00 in 2017. Similarly, international calls through mobile phone to countries operating within the One Area Network had lower charges compared to those operating outside the framework which charged higher tariffs.

Value of 14.4. Details on value of output, intermediate consumption and value added for the ICT sector Output at current prices are presented in Table 14.1. The value of ICT output increased by 10.9 per cent from KSh 311.1 billion in 2016 to KSh 345.1 billion in 2017. Intermediate consumption increased by 13.6 per cent to KSh 235.7 billion in 2017. Consequently, ICT value added increased by 5.4 per cent from KSh 103.8 billion in 2016 to KSh 109.4 billion in 2017.

Table 14.1: Output, Intermediate Consumption and Value Added of the Information and Communication Sector, 2013-2017

KSh Million
alue Added
68,478.0
65,592.0
60,485.3
103,806.9
109,388.3

<sup>\*</sup>Provisional

Fixed 4.5. Analysis on the performance of fixed and mobile network services for the period 2013 **Telephone** to 2017 are presented in Table 14.2. Fixed line capacity decreased by 19.6 per cent to 144 and Mobile thousand in 2017 from 179 thousand in 2016. The decline was mainly attributed to low usage **Network** of wireline and wireless connections. The total connections for fixed telephone continued to **Services** decline further from 72.8 thousand in 2016, to 69.9 thousand in 2017.

> 14.6. Mobile subscriptions increased by 9.8 per cent from 39.0 million in 2016 to 42.8 million in 2017, with pre-paid subscriptions accounting for 96.7 per cent of the total mobile subscriptions. The Mobile Numbers Ported (MNPs) increased significantly by 95.8 per cent to 2,575 in 2017, a reversal from the decline of 67.8 per cent recorded in 2016. The growth is mainly attributed to the revision of the mobile number portability service level agreements amongst the Mobile Network Operators (MNOs) and Mobile Virtual Network Operator (MVNOs), facilitated by Communications Authority of Kenya.

> 14.7. Total transfers through mobile money increased by 8.4 per cent from KSh 3,356 billion in 2016 to KSh 3,638 billion in 2017. Mobile money subscriptions declined by 6.2 per cent from 32.0 million in 2016 to 30.0 million in 2017. The value of mobile commerce transactions expanded by 85.5 per cent from KSh 1.8 trillion in 2016 to KSh 3.2 trillion in 2017. The growth was spurred by customer's preference for mobile commerce and the availability of these services across the country.

Table 14.2: Fixed and Mobile Network Services, 2013-2017

	2013	2014	2015	2016	2017*
Fixed Telephony					
Fixed line Capacity ('000) <sup>1</sup>	408	340	75	179	144
Total Connections ('000)	206.0	180.0	85.0	72.8	69.9
Wireline Connections	57.0	48.0	85.0	72.4	69.6
Wireless Connections <sup>1</sup>	149.0	132.0	0.0	0.4	0.3
Mobile Telephony					
Mobile Telephone Capacity ('000)	55,077	65,077	62,800	71,600	70,000
Connections ('000)	31,309	33,633	37,716	38,982	42,815
Post Paid Subscriptions ('000)	560.5	854.3	1,009.6	1,413.4	1,414.5
Pre Paid Subscriptions ('000)	30,749.0	32,778.0	36,706.0	37,569.0	41,401.0
Mobile Numbers Ported <sup>2</sup>	1,303	2,340	2,207	1,315	2,575
Mobile Money					
Mobile Money Transfer Agents	93,689	123,703	143,946	165,908	182,472
Mobile Money Transfer Service Subscribers ('000)	26,016	26,023	26,753	31,997	30,005
Total Deposits through Agents (KSh Billion)	1,033	1,269	1,347	1,536	2,194
$Total\ Transfer\ from\ Subscriber\ to\ Subscriber\ (KSh\ Billion)$			1,339	1,818	2,204
Total Transfers, (KSh Billion)	1,902	2,372	2,816	3,356	3,638
Number of Total Transactions in Million	732.6	911.3	1,114.2	1,526.2	1,543.2
Value of Mobile Commerce Transactions (KSh Billion)				1,750	3,246
Number of Mobile Commerce Transactions ('000)				928, 174	1,609,297

Source: Communication Authority of Kenya/ Central Bank of Kenya

 $<sup>^{1}</sup>$  Includes Local Loop Operators, the wireless connections were decommissioned end of 2015 and recommissioned in 2016

<sup>&</sup>lt;sup>2</sup>Mobile Number Portability enables mobile users to retain their telephone numbers when migrating from one network to another

<sup>..</sup> Data not available

**Telephone** 14.8. Telephone call traffic for the period 2013 to 2017 is presented in Table 14.3. In the year call traffic under review, international telephone traffic declined from 1,196.5 million minutes in 2016 to 1,056.7 million minutes. The decline may be attributed to preference for Over the Top (OTT) services e.g Whatsapp, Skype etc., and social media. International outgoing telephone traffic decreased by 6.4 per cent from 482.5 million minutes in 2016 to 453.6 million minutes in 2017. Similarly, international incoming telephone traffic decreased by 15.5 per cent from 714 million minutes in 2016 to 603 million minutes in 2017. In 2017, incoming traffic from fixed telephone grew by 7.3 per cent to 9.3 million minutes after recording declines in the last three years. The increase was partly attributed to low-priced call rates from the originating countries. During the review period, the international outgoing and incoming mobile traffic declined by 5.6 per cent and 15.8 per cent to 446.8 million minutes and 593.8 million minutes, respectively,

Table 14.3: Telephone Call Traffic, 2013-2017

					Minutes '000
	2013	2014	2015	2016	2017*
International Calls					
Total International Outgoing Telephone					
Traffic	546,558	461,754	544,560	482,482	453,610
International Outgoing Mobile	530,823	446,591	534,433	473,292	446,760
International Outgoing Fixed	15,736	15,163	10,127	9,190	6,850
Total International Incoming Telephone					
Traffic	676,267	591,022	628,403	713,969	603,110
International Incoming Mobile	664,035	578,920	619,395	705,299	593,810
International Incoming Fixed	12,232	12,102	9,008	8,670	9,300
Total International Telephone Traffic	1,222,825	1,052,776	1,172,963	1,196,451	1,056,720
Roaming					
Roaming by Home Subscribers Abroad					
(Outbound Roaming)	48,011	38,251	91,171	143,529	193,622
Roaming by Foreign Subscribers in Kenya					
(Inbound Roaming)	41,382	48,060	103,612	122,023	79,610
Total Roaming	89,393	86,311	194,783	265,552	273,232
Domestic Calls					
Total Fixed to Fixed Telephone Traffic (a+b)	28,560	23,298	5,252	2,513	2,597
Fixed wireless to Fixed wireless (a)	18,892	21,622	3,336	877	1,314
Fixed to Fixed telephone (b)	9,668	1,676	1,916	1,636	1,283
Fixed to Mobile telephone	101,722	117,053	47,702	41,394	43,353
Mobile to Mobile telephon e	29,758,949	30,473,694	39,068,816	42,070,692	43,944,431
Mobile to Fixed telephone	52,334	66,564	75,394	63,240	88,787
Total Domestic Traffic	29,960,246	30,680,916	39,197,164	42,177,839	44,079,168
International Outgoing Fixed VoIP1	8,101	7,335	4,785	3,938	2,865

Source: Communication Authority of Kenya

14.9. During the review period, the total roaming traffic recorded a decelerated growth of 2.9 per cent in 2017 compared to a growth of 36.3 per cent registered in 2016. The slow growth was partly attributed to low number of large international conferences held in the country during the review period. Outbound roaming traffic rose by 34.9 per cent to 193.6 million minutes in 2017 compared to a growth of 57.4 per cent recorded in 2016.

14.10. Total domestic traffic increased from 42.2 billion minutes in 2016 to 44.1 billion minutes in 2017. Mobile phone traffic, which accounted for 99.7 per cent of the total domestic traffic, increased by 4.5 per cent to 43.9 billion minutes in 2017. Fixed wireless to fixed wireless registered a higher growth of 49.8 per cent, followed by mobile to fixed traffic which recorded a 40.4 per cent growth in 2017. The increase of traffic from fixed wireless to fixed wireless was

<sup>\*</sup>Provisional

<sup>&</sup>lt;sup>1</sup> Voice Over Internet Protocol (VoIP)

partly attributed to discounted rates. Traffic from fixed to fixed telephone declined by 21.6 per cent to 1.3 billion minutes in the review period.

14.11. The international outgoing fixed Voice over Internet Protocol (VoIP) traffic continued to decline from 3.9 million minutes in 2016 to 2.9 million minutes in 2017. This was mainly due to a rise in the uptake of instant messaging applications and social media. The instant messaging application have incorporated VoIP capabilities on internet enabled phones.

# Message

14.12. Information on message service traffic is presented in Table 14.4. The total number of messages sent via Short Messaging Services (SMS) has maintained an upward trend despite the availability of instant messaging applications and use of social media. Total SMSs sent increased by 41.8 per cent from 46.3 billion in 2016 to 65.7 billion in 2017. The number of SMSs sent to the rest of the world in 2017 increased marginally as shown in Figure 14.1. Similarly, SMSs received from the rest of the world increased from 38.5 million in 2016 to 41.4 million in 2017. The growth was partly attributed to availability of services such as SMS tariffs, one-bundle tariffs and provision of bulk SMS services.

Table 14.4: Message Service Traffic, 2013 -2017

Number '0								
Messages	2013	2014	2015	2016	2017*			
Multimedia Messaging Service (MMS)	9,761	12,011	13,686					
Total SMS sent	19,837,856	27,416,127	28,320,513	46,342,335	65,720,297			
Domestic	19,788,436	27,368,995	28,281,231	46,305,545	65,682,804			
International	49,420	47,132	39,282	36,790	37,493			
International SMS received	100,670	161,763	131,076	38,478	41,390			

Source: Communication Authority of Kenya

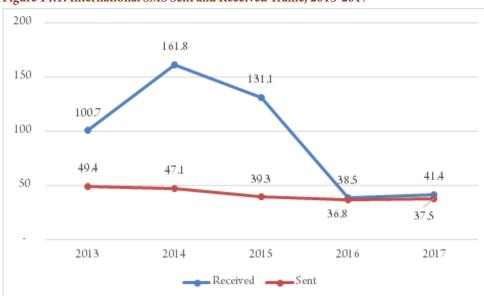


Figure 14.1: International SMS Sent and Received Traffic, 2013-2017

<sup>\*</sup> Provisional

<sup>..</sup> Data not available

Internet 14.13. The number of Internet Service Providers (ISPs) decreased from 242 in 2016 to 219 **Services** in 2017, as shown in Table 14.5. The decline was partly attributed to non-renewal of licenses by some firms in 2017. The total wireless internet subscriptions increased by 24.9 per cent to 33.2 million subscribers in 2017. Similarly, total fixed wired internet subscriptions increased by 59.2 per cent to 198,472 in 2017 from 124,637 in 2016. Fixed fiber optic subscriptions accounted for 50.2 per cent of the total fixed wired subscriptions in the year under review. This was partly attributed to the ongoing laying of fiber across the country which resulted in increased bandwidth capacity.

Table 14.5: Internet Providers and Subscriptions, 2013-2017

					Number
	2013	2014	2015	2016	2017*
Licensed Internet Services Providers $(ISPs)^1 \dots \dots$	171	177	221	242	219
Total Wireless Internet Subscriptions	13,107,459	16,357,239	23,814,546	26,559,184	33,166,725
Terrestrial Mobile Data	13,090,348	16,338,990	23,794,550	26,528,876	33,076,894
Terrestrial Wireless Data	16,429	17,537	19,507	29,724	89,062
Satellite Data	682	712	489	584	769
$Total\ Fixed\ (Wired)\ Internet\ Subscriptions$	79,509	95,780	115,111	124,637	198,472
Fixed Digital Subscriber Line (DSL) Data	12,014	14,512	3,732	2,483	1,953
Fixed Fiber Optic Data <sup>2</sup>	67,470	81,243	111,354	36,015	99,643
Fixed Cable Modem (Dial Up) Data <sup>2</sup>	25	25	25	86,139	96,876
Total Fixed and Wireless Internet Subscriptions	13,186,968	16,453,019	23,929,657	26,683,821	33,365,197

Source: Communication Authority of Kenya

**Broadband** 14.14. The analysis of broadband services for the period under review is presented in Table **Services** 14.6. Bandwidth capacity increased for the third year in a row to 3.2 million Megabytes per second (Mbps) mainly due to the laying of the fiber optic cables in the country. The undersea bandwidth capacity increased by 56.9 per cent while satellite bandwidth increased by 18.2 per cent in 2017. Total bandwidth utilized stood at 916,735 Mbps in 2017 compared to 860,570 Mbps in 2016. Preference for fixed broadband speeds of 2 Mbps or more compared to speeds of less than 2 Mbps was observed in the review period.

> 14.15. Total fixed wired broadband increased by 55.2 per cent from 127,877 in 2016 to 198,472 in 2017, while the total wireless broadband increased by 35.2 per cent from 12.6 million in 2016 to 17.0 million in 2017. The increase was mainly attributed to the availability of affordable high internet speeds. Demand for mobile broadband increased by 34.9 per cent to 16.9 million subscribers in 2017. The Global System for Mobile Communication (GSM) mobile phone subscriptions increased by 42.9 per cent to 15.9 million, while GSM modem subscriptions decreased by 28.8 per cent to 992,499 in 2017. The decline of GSM modem subscriptions was partly attributed to availability of internet enabled phones which offer similar services to the GSM modem.

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup>Also includes Application Service Providers (ASPs)

<sup>&</sup>lt;sup>2</sup>Definition was changed in 2016

Table 14.6: Broadband Services, 2013-2017

	2013	2014	2015	2016	2017*
Capacity in Megabits Per Second (Mbps)					
Undersea Bandwidth Capacity	862,210	847,250	1,550,270	2,028,270	3,182,592
Satellite Bandwidth Capacity	264	273	498	473	559
1. Total Available Bandwidth Capacity	862,474	847,523	1,550,768	2,028,743	3,183,151
Utilized Bandwidth in Mbps					
Un dersea Ban dwidth	365,330	498,015	854,300	860,300	916,287
Satellite Bandwidth	83	106	251	270	448
2. Total Utilized Bandwidth	365,413	498,121	854,551	860,570	916,735
Broadband Subscriptions					
Copper line (Dial-up, DSL and xDSL)	5,967	3,388	441	2,483	1,953
Fiber to the Home	42,958	59,986	81,532	15,853	63,276
Fiber to the Office	20,215	21,257	29,156	23,402	36,367
Cable modem				86,139	96,876
3.Total Fixed (Wired)- Broadband	69,140	84,631	111,129	127,877	198,472
4. Satellite broadband	474	495	481	445	769
5. Terrestrial fixed wireless broadband	15,367	16,687	19,507	29,556	82,362
6. Total Active mobile broadband (a+b+c)	2,395,836	4,141,498	7,112,991	12,546,559	16,926,599
GSM mobile phones (a)	1,755,116	3,417,949	6,344,226	11,151,664	15,934,100
GSM modems (b)	586,484	657,902	768,765	1,394,895	992,499
CDMA 2000 phones** (c)	54,236	65,647	0	0	0
7. Total wireless broadband (4+5+6)	2,411,677	4,158,680	7,132,979	12,576,560	17,009,730
8. Total fixed and wireless broadband (3+7)	2,480,817	4,243,311	7,244,108	12,704,437	17,208,202
Fixed Broadband by speed					
256 Kbps	482	2,272	2,500	862	854
512 Kbps	10,501	10,527	3,500	4,808	2,927
1 Mbps	51,194	62,146	18,000	22,702	14,459
2 Mbps	8,791	3,810	4,000	33,574	96,391
> 2 Mbps	12,868	9,567	69,000	91,046	173,672

Source: Communication Authority of Kenya

**Tariffs** 14.16. Table 14.7 presents information on fixed and mobile charges for the period 2013 to 2017. The cost of installing fixed telephone increased by 17.0 per cent from KSh 4,699 in 2016 to KSh 5,496 in 2017. The installation fee for copper solutions and fiber solutions to buildings was KSh 7,000 while that of microwave solutions was KSh 80,000. The high cost of installation for microwave solution is on account of spectrum fees. The average price of a one minute mobile to mobile call declined marginally from KSh 3.08 in 2016 to KSh 3.00 in 2017.

<sup>\*</sup>Provisional

<sup>`+</sup>Revised

 $<sup>^{**}\</sup>mathrm{CDMA}\,2000\,\mathrm{phones}$  were decommissioned in 2015

<sup>..</sup> Data not available

Table 14.7: Fixed and Mobile Charges, 2013-2017

KSh 2017\* 2013 2014 2015 2016 **Fixed Charges** Installation Fees Busin ess and Residential Fixed Telephone Service...... 3,394.00 3,394.00 3,394.00 4,699.00 5,496.00 Copper Solutions..... 7,000.00 Microwave Solutions..... 80,000.00 Fiber Solutions..... 7,000.00 Monthly Susbcription for Residential Telephone Service ...... 580.00 580.00 580.00 580.00 580.00 580.00 580.00 1,000.00 Monthly Susbcription for Business Telephone Service..... 580.00 580.00 4.50 4.50 3.00 3.00 5.00 Average price of a one minute Fixed to Mobile local call ...... 9.00 9.00 9.00 9.00 8.00 **Mobile Charges** Lowest recharge card value..... 5.00 5.00 5.00 5.00 5.00 Average price of a one minute Mobile to Mobile local call ... ... 3.86 3.10 3.08 3.08 3.00 Average price of a one minute Mobile to Fixed local call ...... 3.25 3.25 3.25 3.25 3.21 Average price of a message via SMS...... 1.50 1.00 1.25 1.25 1.06

Source: Communication Authority of Kenya

Note: All averages are unweighted

14.17. The average prices of a one-minute call originating from a mobile phone in Kenya to other countries for the period 2013 to 2017 are presented in Table 14.8. Calls to EAC countries, under the One Network Area (ONA) framework towards harmonizing call charges, were generally cheaper compared to others. In 2017, calling charges in Uganda, Rwanda and South Sudan, was KSh 7.50 per minute compared to KSh 56.25 and KSh 23.75 charged in Burundi and Tanzania, respectively. This is on account of Burundi and Tanzania not operating within the ONA framework.

<sup>\*</sup> Provisional

<sup>..</sup> Data not available

Table 14.8 Average International Call Rates from Mobile Phone, 2013-2017

KSh per Minute

				KSI	i per Minute
Countries	2013	2014	2015	2016	2017*
Uganda	20.25	20.25	9.50	7.50	7.50
Rwanda	23.25	23.25	9.50	7.50	7.50
Burun di	25.75	25.75	13.25	33.75	56.25
Tanzania	23.25	23.25	16.25	23.75	23.75
Ethiopia	32.50	32.50	22.50	25.00	25.00
Somalia	32.50	32.50	20.00	40.00	45.00
South Sudan	50.00	50.00	17.50	12.50	7.50
South Africa	19.00	19.00	13.50	13.50	13.50
Other African Countries	32.50	32.50	22.50	22.50	22.50
USA	3.62	3.62	3.00	3.50	3.75
Germany	28.75	28.75	28.75	27.50	27.50
Switzerland	33.75	33.75	28.75	37.50	37.50
Italy	28.75	28.75	28.75	37.50	37.50
France	28.75	28.75	28.75	27.50	27.50
United Kingdom	19.00	19.00	13.50	13.50	13.50
Other European Countries	33.75	33.75	28.75	28.75	20.00
India	3.62	3.62	3.00	3.50	3.75
China	3.62	3.62	3.00	3.50	3.75
Japan	33.75	33.75	28.75	30.00	30.00

Source: Communication Authority of Kenya

**Domains** 14.18. The number of domains increased by 18.1 per cent from 62,636 in 2016 to 73,972 in 2017, as shown in Table 14.9. Domains under information content, mobile content and those used in network devices more than doubled to 374, 126 and 466 in 2017, respectively. This was partly attributed to enhanced uptake and use of sub-domain names as a result of awareness on the benefits.

Table 14.9 Registered Domains, 2013-2017

						Number
Subdomain	Users	2013	2014	2015 <sup>+</sup>	2016	2017*
.ac.ke	Institutions of Higher Education	737	792	580	726	768
.co.ke	Companies	27,643	35,274	46,541	58,165	68,430
.go.ke	Government entities	339	314	290	363	414
.info.ke	Information e.g. blogs	98	105	115	144	374
.me.ke	Personal websites & email	413	650	260	326	386
.mobi.ke	Mobile content	37	48	35	44	126
.ne.ke	Network Devices	46	65	140	175	466
.or.ke	Non profit making organisations or NGO's	1,159	1,190	1,485	1,860	1,981
.sc.ke	Lower & middle institutions of learning	113	95	665	833	1,027
TO	OTAL	30,585	38,533	50,111	62,636	73,972
	Number of registrars	180	210	270	367	372
	Domain renewal fee	2,320	2,320	580	580	1,160
	Average annual fee to operate domain					
	(Domain registration fee)in KSh	2,300	2,300	650	650	650

Source: Kenya Network Information Centre

# Frequencies and Mobile **Transceivers**

Media 14.19. Information on media frequencies and mobile transceivers for the period 2013 to 2017 is presented in Table 14.10. The number of self-provisioning broadcasters and the broadcast signal distributors remained unchanged. The number of homes with proximity to cable TV distribution lines increased by 5.9 per cent to 296,906 in 2017 from 280,429 in 2016. Cable TV subscriptions declined for the first time in the last three years by 16.3 per cent from 95,493 in 2016 to 79,938 in 2017. The decline is partly attributed to availability of other digital platforms such as online streaming and use of digital terrestrial services that may not require monthly subscriptions payments. Digital Terrestrial TV subscriptions increased by 11.0 per cent from 3.9 million in 2016 to 4.3 million in 2017.

14.20. The total number of mobile transceivers grew by 49.3 per cent from 123,380 in 2016 to 184,149 in 2017. The increase was partly attributed to inclusion of the fourth generation (4G) in 2017. The second generation (2G) continued to be the most widely used technology accounting for 74.7 per cent of the total transceivers in 2017.

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>+</sup>Revised

Table 14.10: Media Frequencies and Mobile Transceivers, 2013-2017

					Number
	2013	2014	2015	2016	2017*
TV Frequencies	336	245	302	312	333
Radio FM Frequencies	553	561	608	687	740
Digital Distributors					
Self-Provisioning Broadcast Signal Distributors	0	0	3	3	3
Broadcast Signal Distributors	2	2	2	2	2
Total Digital Signal Distributors	2	2	5	5	5
TV Stations					
Analogue TV Stations <sup>1</sup>	14	19	0	0	0
Digital TV stations	0	36	62	63	89
Total TV Stations	14	55	62	63	89
Number of Households passed by Cable TV				280,429	296,906
Digital Subscriptions					
Cable TV		56,106	81,118	95,493	79,938
Direct to Home Satellite		211,846	250,627	350,626	476,225
Digital Terrestrial Televisions (STBs)		1,041,656	3,712,548	3,905,656	4,334,166
Internet-Protocl TV (IPTV)				5	18
Total Digital Subscriptions	0	1,309,608	4,044,293	4,351,780	4,890,347
Radio Stations					
English and Kiswahili <sup>+</sup>	80	85	89	110	109
All Vernacular Languages <sup>+</sup>	50	50	50	63	67
Total Radio Stations	130	135	139	173	176
Mobile 2G	80,894	84,631	89,994	92,562	137,560
Transceivers	30,074	о <del>т,</del> 031	67,77 <del>1</del>	72,302	137,300
by 3G	12,775	15,381	19,300	30,818	42,716
Technology 4G					3,873
Total	93,669	100,012	109,294	123,380	184,149

Source: Communication Authority of Kenya

STBs- Set Top Boxes

Employment, 14.21. Table 15.11 presents information on employment, investment and revenue on Investment and telecommunication operators and Internet Service Providers (ISPs) for the period 2013 to Revenue 2017. Employment by telecommunication operators increased marginally from 6,178 in 2016 to 6,907 in 2017. Internet service providers increased by 583 employees to 9,031 in 2017.

> 14.22. The value of investment by the telecommunication operators and ISPs decreased by 25.9 per cent and 31.8 per cent to KSh 38.7 billion and KSh 1.5 billion, respectively, in 2017. The annual revenue earned by telecommunication operators increased by 12.2 per cent to KSh 241.0 billion in 2017 from KSh 214.8 billion in 2016.

<sup>\*</sup> Provisional

<sup>+</sup> Revised

<sup>..</sup> Data not available

<sup>&</sup>lt;sup>1</sup>Analogue TV stations closed in 2015

Table 14.11: Employment, Investment and Revenue, 2013-2017

	Type of Operators	2013	2014	2015	2016	2017*
	Telecommunication Operators <sup>1</sup>	5,617	6,439	6,147	6,178	6,907
Employment (Number)						
	Internet Service Providers (ISPs) <sup>2+</sup>	7,076	6,237	7,817	8,448	9,031
Annual Investment in Telecommunication Operators <sup>1</sup>		30.4	32.5	36.2	52.2	38.7
KSh Billion <sup>3</sup>	ISPs <sup>2</sup>	3.7	3.4	3.4	2.2	1.5
Annual Revenue in KSh Telecommunication Operators <sup>1</sup>		152.5	173.6	194.5	214.8	241.0
Billion <sup>3</sup>	ISPs <sup>2</sup>	14.6	15.7	17.0	18.6	21.3

<sup>\*</sup> Provisional

**Information** 14.23. Table 14.12 presents indicators used for measuring information society. The penetration **Society** of most ICT indicators have been registering an upward trend in the last five years apart from the fixed telephone lines per 100 inhabitants. The mobile penetration rates for total population increased by 7.0 per cent from 85.9 in 2016 to 91.9 per 100 inhabitants in 2017. The internet penetration rose by 21.8 per cent from 58.8 in 2016 to 71.6 per 100 inhabitants in 2017. The bits per second per capita (Bps/capita) increased from 19,890.40 Bps in 2016 to 20,630.20 Bps in 2017, a reversal from the decline registered in the previous year.

> 14.24. Mobile and internet penetration for the population of 3 years and above increased by 6.8 per cent from 94.7 in 2016 to 101.1 per 100 inhabitants in 2017. Similarly, fixed and wired broadband penetration rates per 100 inhabitants rose from 30.9 in 2016 to 40.6 in 2017. This increase was partly attributed to the availability of the fiber optic cables across the country.

Table 14.12: Key Indicators Measuring Information Society, 2013-2017

Represents Total Population	2013	2014	2015	2016	2017*		
Fixed telephone lines per 100 inhabitants	0.65	0.52	0.19	0.16	0.15		
Mobile-cellular telephone subscriptions per 100 inhabitants	74.92	78.30	85.41	85.93	91.89		
Wireless internet subscribers per 100 in habitants	31.36	38.10	53.90	58.50	71.20		
Internet subscribers per 100 inhabitants (Wireless and Fixed)	31.56	38.30	54.19	58.82	71.61		
Bits per second per capita (Bps/person)	9,168.22	12,157.90	20,292.80	19,890.40	20,630.20		
Broadband subscriptions per 100 inhabitants (wireless)	5.77	9.68	16.20	27.70	36.50		
Broadband subscriptions per 100 inhabitants (Fixed and Wired)	5.94	9.88	16.40	28.00	36.93		
Mobile money subscriptions per 100 inhabitants	62.26	60.57	60.59	70.53	64.40		
Represents Population of Three (3) years and above			,				
Fixed telephone lines per 100 inhabitants	0.54	0.46	0.21	0.18	0.16		
Mobile-cellular telephone subscriptions per 100 inhabitants	82.50	86.20	94.20	94.70	101.10		
Wireless internet subscribers per 100 inhabitnats	34.54	41.92	59.48	64.55	78.29		
Internet subscribers per 100 inhabitants (Wireless and Fixed)	10.42	42.17	59.77	64.85	78.75		
Bits per second per capita (Bps/person)	10,095.90	13,386.54	22,381.20	21,931.30	22,689.34		
Broadband subscriptions per 100 inhabitants (wireless)	6.35	10.66	17.82	30.57	40.15		
Broadband  subscriptions  per  100  in habitants  (Fixed  and  Wired)	6.54	10.88	18.10	30.88	40.62		

<sup>\*</sup>Provisional

 $<sup>^{\</sup>rm 1}$  Include operators offering fixed, mobile and satellite telecommunication activities

<sup>&</sup>lt;sup>2</sup> Include Application Service Providers (ASPs)

<sup>&</sup>lt;sup>3</sup>As at June

<sup>\*</sup>Revised

International 14.25. International trade in ICT equipment based on the Standard International Trade Trade in ICT Classification (SITC) is presented in Table 14.13. During the review period, the value of **Equipment** ICT exports decreased by 42.7 per cent compared to 6.6 per cent growth recorded in 2016. However, the value of office machine exports increased by 22.0 per cent to KSh 80.3 million in 2017 from KSh 65.8 million in 2016.

> 14.26. The value of ICT imports increased by 17.4 per cent from KSh 57.0 billion in 2016 to KSh 66.9 billion in 2017. Imports of reception apparatus for radio broadcasting recorded a significant drop of 84.0 per cent to KSh 190.6 million in 2017 from KSh 1.2 billion in 2016. The decline is partly attributed to use of alternative modes of broadcasting.

Table 14.13: International Trade in ICT Equipment, 2013-2017

					KSh Million
Exports	2013	2014	2015	2016	2017*
Office machines <sup>1</sup>	24.1	17.1	113.3	65.8	80.3
Automatic data processing machines, storage units etc	980.3	330.9	358.5	442.1	231.8
Part and accessories <sup>2</sup>	63.8	68.9	76.2	55.7	29.2
$Monitors  and  projectors  and  reception  apparatus  for  television^3 \ldots$	72.4	294.9	194.6	398.0	251.6
Reception apparatus for radio broadcasting <sup>4</sup>	30.5	8.8	12.5	22.1	10.8
Recording equipments 5	5.7	9.5	5.9	7.0	3.0
Telecommunications equipment <sup>6</sup>	1,122.6	528.2	1,303.5	1,209.3	653.3
Total	2,299.4	1,258.3	2,064.5	2,200.0	1,260.0
Imports					
Office machines 1	834.1	804.7	1,352.1	1,298.7	2,194.8
Automatic data processing machines, storage units etc	15,018.8	9,720.0	11,211.7	18,959.4	25,233.2
Part and accessories <sup>2</sup>	998.9	1,034.1	682.3	700.8	830.0
Monitors and projectors and reception apparatus for television $^3\dots$	8,621.6	5,991.5	8,049.7	5,771.0	5,857.3
Reception apparatus for radio broadcasting <sup>4</sup>	488.8	134.9	118.4	1,190.8	190.6
Recording equipments <sup>5</sup>	592.2	370.0	462.3	344.0	572.3
Telecommunications equipment <sup>6</sup>	24,160.0	23,622.2	29,444.0	28,693.9	32,014.7
Total	50,714.4	41,677.4	51,320.5	56,958.6	66,892.9

<sup>\*</sup>Provisional

 $<sup>^{1}\</sup> Electronic\ calculating\ machines,\ cash\ registers,\ accounting\ machines,\ postage-franking\ machines,\ ticket\ issuing\ machines,\ reproducing\ and\ displaying\ machines,\ ticket\ issuing\ machines,\ reproducing\ and\ displaying\ machines,\ reproducing\ and\ reproducing\ machines,\ reproducing\ and\ reproducing\ machines,\ reproducing\ and\ reproducing\ machines,\ reproducing\ and\ reproducing\ machines,\ re$ 

<sup>&</sup>lt;sup>2</sup> For office machines and data processing machines

 $<sup>^{3}</sup>$  Include Television sets, decoders etc

<sup>&</sup>lt;sup>4</sup>Whether or not combined with sound recording or reproducing apparatus or a clock

<sup>&</sup>lt;sup>5</sup> Sound recording, video recording or reproducing apparatus including or not including a video tuner

<sup>&</sup>lt;sup>6</sup> Such as computer, laptops, networking equipments etc plus their parts and accessories such as telephone sets, microphones, electric sound amplifier sets Television cameras, digital or video cameras recorders, radio or tv transmission apparatus etc

# **Economic Survey 2018**

Readership

**Newspaper** 14.27. Circulation of hard copy newspapers continued to decline as shown in Table 14.14. The Circulation number of English and Kiswahili daily newspapers reduced by 5.0 per cent and 10.0 per cent, and Online respectively, during the review period. Online readership per day increased by 20.1 per cent **Newspaper** from 1,862,943 in 2016 to 2,237,608 in 2017.

Table 14.14: Local Daily/Weekly Newspapers in Circulation, 2013 – 2017

Newspapers**	2013	2014	2015	2016	2017*
Daily Newspapers Copies ('000)					
English	104,057	102,000	98,548	94,348	89,631
Kiswahili	5,900	5,800	5,209	4,401	3,961
Weekly Newspapers Copies ('000)					
English	16,794	15,900	14,975	13,741	12,917
Kiswahili	1,810	1,900	1,825	1,413	1,272
Average online visitors per day	793,046	1,025,043	1,575,043	1,862,943	2,237,608

Source: Various Media Houses

 $<sup>^*\,</sup>Provisional$ 

<sup>\*\*</sup> Excludes free newspaper copies



**SOCIAL SCENE** 

# **Education and Training**

# Chapter 15

Overview

he Government has been implementing various reforms aimed at improving the quality of education. In the review period, the Government continued to fund the Free Primary and Day-Secondary Education. In addition, the Government registered more TVET institutions to increase access to vocational and technical training. During the same period, the Government increased budgetary allocation to the sector mainly on account of increased funding for basic and university education. Other reforms undertaken in the review period focused on the management of national examinations and development of a new curriculum.

15.2. The total expenditure for the Ministry of Education, which includes that of Teachers Service Commission is expected to grow by 31.6 per cent from KSh 315.6 billion in 2016/17 to KSh 415.3 billion in 2017/18. The total recurrent expenditure for the Ministry of Education is expected to increase by 30.7 per cent to KSh 385.2 billion in 2017/18. Development expenditure in the Ministry of Education is expected to increase to KSh 30.0 billion in 2017/18.

15.3. Overall, the number of educational institutions increased by 5.1 per cent to 90,587 in 2017. During this period, pre-primary schools went up by 1.3 per cent to 41,779 while primary schools rose by 6.7 per cent to 35,442. Further, the number of secondary schools increased by 7.2 per cent from 9,942 in 2016 to 10,655 in 2017, while registered Technical Vocational and Education Training (TVET) institutions rose substantially by 50.9 per cent to 1,962 in the same period.

15.4. During the review period, total enrolment in pre-primary schools rose by 2.9 per cent to 3,293.8 thousand. Total enrolment in primary schools increased from 10.3 million in 2016 to 10.4 million in 2017. In addition, enrolment in secondary schools grew by 4.1 per cent to 2,830.8 thousand in 2017. Overall teacher trainees 'enrolment went up marginally from 41,707 in 2016 to 42,131 in 2017 while total enrolment in TVET institutions increased by 35.8 per cent to 275,139 in 2017. However, university student enrolment is expected to decline by 7.7 per cent from 564,507 in 2016/17 to 520,893 in 2017/18 academic year.

Education penditure

15.5. Table 15.1 presents total expenditure by the Ministry of Education for the period 2013/14 to 2017/18. Total expenditure is expected to increase by 31.6 per cent from KSh 315.6 billion in 2016/17 to KSh 415.3 billion in 2017/18. During the review period, recurrent expenditure for State Departments of Basic Education is expected to grow substantially to KSh 84.8 billion. This increase is attributable to funding of Free Primary Education (FPE) and Free Day Secondary Education (FDSE). Recurrent expenditure for University Education is expected to more than double to KSh 96.0 billion in 2017/18. Recurrent expenditure for Teachers Service Commission (TSC) is expected to rise by 5.7 per cent to KSh 201.9 billion in 2017/18 while that of Vocational and Technical Training is expected to rise by 2.3 per cent to KSh 2.5 billion during the same period.

15.6. Total development expenditure by the Ministry of Education is expected to increase by 43.9 per cent from KSh 20.9 billion in 2016/17 to KSh 30.0 billion in 2017/18. The growth in development expenditure in the ministry is mainly attributed to the funding of Vocational and Technical Training and Teachers Service Commission. Development expenditures for State

Department of Vocational and Technical Training is expected to rise substantially from KSh 4.8 billion in 2016/17 to KSh 16.5 billion in 2017/18. During the same period, development expenditures for State Department of Basic Education and University Education are expected to decline by 2.0 per cent to KSh 8.0 billion and 31.5 per cent to KSh 5.4 billion, respectively.

Table 15.1: Expenditure for the Ministry of Education<sup>1</sup>, 2013/14 - 2017/18

					KSh Million
	2013/14	2014/15	2015/16	2016/17+	2017/18**
RECURRENT EXPENDITURE					
Ministry of Education					
State Department of Basic Education	42,204.06	51,316.39	57,519.21	54,977.03	84,768.99
Teachers Service Commission	154,778.10	157,209.10	180,970.14	190,947.22	201,893.46
State Department for University Education	37,976.67	51,775.82	39,525.27	46,303.33	96,042.01
$State\ Department\ for\ Vocation\ al\ and\ Technical\ Training$	2,256.01	1,244.80	2,308.13	2,479.53	2,535.36
Sub Total	237,214.84	261,546.11	280,322.75	294,707.12	385,239.82
DEVELOPMENT EXPENDITURE					
Ministry of Education					
State Department of Basic Education	8,843.94	11,156.42	5,258.23	8,188.86	8,023.82
Teachers Service Commission	-	-	100.00	6.34	118.00
State Department for University Education	3,085.08	9,595.41	5,002.01	7,930.17	5,435.85
State Department for Vocational and Technical Training	2,068.73	1,866.95	4,248.17	4,746.18	16,463.28
Sub Total	13,997.76	22,618.78	14,608.41	20,871.55	30,040.95
GROSS TOTAL EXPENDITURE	251,212.59	284,164.89	294,931.16	315,578.67	415,280.76

Source: The National Treasury

15.7. **Educational Institutions:** The total number of educational institutions increased by 5.1 per cent from 86,179 in 2016 to 90,587 in 2017 as shown in Table 15.2. The number of pre-primary, primary and secondary schools went up by 1.3 per cent, 6.7 per cent and 7.2 per cent, respectively, in 2017. Notably, the rate of increase for private schools was higher than that of public schools during the year under review. The total number of registered Technical Vocational and Education Training (TVET) institutions rose substantially by 50.9 per cent from 1,300 in 2016 to 1,962 in 2017. The increase is partly as a result enforcement of the TVET Act where all the institutions were required to be registered. The number of public universities increased by one following the granting of charter to Garissa University College.

<sup>\*\*</sup>Estimates

<sup>+</sup> Revised

Table 15.2: Educational Institutions by Category, 2013 – 2017

Number

16,398 41,779 23,584 11,858 35,442 2,9,111 1,544 10,655	25,175 16,073 41,248 22,939 10,263 33,202 8,592 1,350 9,942	24,862 15,913 40,775 22,414 8,919 31,333 8,297 1,143 9,440	24,768 15,451 40,219 21,718 7,742 29,460 7,680 1,067 8,747	24,702 15,443 40,145 21,205 6,821 28,026 6,807 1,027 7,834	Category Schools:  Pre-Primary: Public
16,398 41,779 23,584 11,858 35,442 2,9,111 1,544 10,655	16,073 41,248  22,939 10,263 33,202  8,592 1,350 9,942	15,913 <b>40,775</b> 22,414 8,919 <b>31,333</b> 8,297 1,143	15,451 <b>40,219</b> 21,718 7,742 <b>29,460</b> 7,680 1,067	15,443 <b>40,145</b> 21,205 6,821 <b>28,026</b> 6,807 1,027	Pre-Primary: Public
16,398 41,779 23,584 11,858 35,442 2,9,111 1,544 10,655	16,073 41,248  22,939 10,263 33,202  8,592 1,350 9,942	15,913 <b>40,775</b> 22,414 8,919 <b>31,333</b> 8,297 1,143	15,451 <b>40,219</b> 21,718 7,742 <b>29,460</b> 7,680 1,067	15,443 <b>40,145</b> 21,205 6,821 <b>28,026</b> 6,807 1,027	Public
16,398 41,779 23,584 11,858 35,442 2,9,111 1,544 10,655	16,073 41,248  22,939 10,263 33,202  8,592 1,350 9,942	15,913 <b>40,775</b> 22,414 8,919 <b>31,333</b> 8,297 1,143	15,451 <b>40,219</b> 21,718 7,742 <b>29,460</b> 7,680 1,067	15,443 <b>40,145</b> 21,205 6,821 <b>28,026</b> 6,807 1,027	Private
23,584 11,858 35,442 9,111 1,544 10,655	22,939 10,263 33,202 8,592 1,350 9,942	22,414 8,919 31,333 8,297 1,143	21,718 7,742 29,460 7,680 1,067	21,205 6,821 28,026 6,807 1,027	Sub Total
23,584 11,858 2 35,442 2 9,111 1,544 2 10,655	22,939 10,263 <b>33,202</b> 8,592 1,350 <b>9,942</b>	22,414 8,919 <b>31,333</b> 8,297 1,143	21,718 7,742 <b>29,460</b> 7,680 1,067	21,205 6,821 <b>28,026</b> 6,807 1,027	Primary: Public
3 11,858 35,442 9,111 1,544 10,655	10,263 33,202 8,592 1,350 9,942	8,919 31,333 8,297 1,143	7,742 <b>29,460</b> 7,680 1,067	6,821 <b>28,026</b> 6,807 1,027	Public
3 11,858 35,442 9,111 1,544 10,655	10,263 33,202 8,592 1,350 9,942	8,919 31,333 8,297 1,143	7,742 <b>29,460</b> 7,680 1,067	6,821 <b>28,026</b> 6,807 1,027	Private
9,111 1,544 10,655	8,592 1,350 9,942	31,333 8,297 1,143	<b>29,460</b> 7,680 1,067	28,026 6,807 1,027	Sub Total
9,111 0 1,544 2 <b>10,655</b>	8,592 1,350 <b>9,942</b>	8,297 1,143	7,680 1,067	6,807 1,027	Secondary: Public Private
1,544 10,655	1,350 <b>9,942</b>	1,143	1,067	1,027	Public
1,544 10,655	1,350 <b>9,942</b>	1,143	1,067	1,027	Private
10,655	9,942	ŕ	ŕ	ŕ	
	,	9,440	8,747	7,834	0.1 m + 1
i 41	26				Sub Total
41	26				Teacher Training Colleges:
5 41	26				Pre-primary:
	20	25	25	22	Public
235	121	118	115	109	Private
276	147	143	140	131	Sub Total
					Primary:
7 27	27	24	24	22	Public
108	105	101	101	101	Private
135	132	125	125	123	Sub Total
3	3	3	2	2	Secondary <sup>1.</sup>
414	282	271	267	256	Total
					TVET Institutions
1,186	816	816	701	701	Public Youth Polytechnics
47	29				Private Youth Polytechnics
2 91	62	55	51	49	Public Technical and Vocational Colleges
627	382				Private Technical and Vocational Colleges
. 11	11	3	3	3	National Polytechnics
1,962	1,300	874	755	753	Sub Total
					Universities
31	30	23	22	22	Public
3 28	28	30	31	30	Private
59	58	53	53	52	Sub Total
90,587	86,179	82,889	79,641	77,197	GRAND TOTAL
9 2 1 0 8 8	2 6 38 1 1,30 3 2	 55  3 874 23 30 53	51 3 755 22 31 53	 49  3 753 22 30 52	Public Youth Polytechnics

 $Source: Ministry\ of\ Education$ 

<sup>\*</sup> Provisional

 $<sup>^{1}</sup>$  Diploma teacher training colleges

<sup>..</sup> Data not available

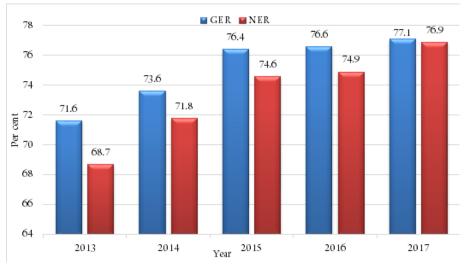
15.8. **Pre-Primary Education:** The pupil enrolment and number of teachers in Early Childhood Development Education (ECDE) centres from 2013 to 2017 is presented in Table 15.3. Total enrolment in ECDE centres is estimated to have increased by 2.9 per cent from 3,199.8 thousand in 2016 to 3,293.8 thousand in 2017. The total number of ECDE teachers grew by 6.7 per cent to 118,276 in 2017, while the number of trained ECDE teachers increased by 9.4 per cent from 97,717 in 2016 to 106,938 in 2017. These increases are attributed to expansion of ECDE centres and employment of more teachers by County Governments. Female teachers accounted for 83.4 per cent of pre-primary school trained teachers in 2017. Pre-primary Gross Enrolment Rate (GER) rose from 76.6 per cent in 2016 to 77.1 per cent in 2017, while the Net Enrolment Rate (NER) increased to 76.9 per cent in 2017 as shown in Figure 15.1.

Table 15.3: Pupil Enrolment and Teacher Numbers in ECDE Centres, 2013 - 2017

					Number
	2013	2014	2015	2016	2017*
Enrolment					
Boys	1,411,309	1,476,383	1,607,353	1,634,194	1,681,530
Girls	1,454,039	1,543,482	1,560,502	1,565,647	1,612,283
TOTAL	2,865,348	3,019,865	3,167,855	3,199,841	3,293,813
Trained Teachers					
Male	13,854	13,968	14,721	15,366	17,746
Female	69,960	74,186	78,185	82,351	89,192
Sub Total	83,814	88,154	92,906	97,717	106,938
Untrained Teachers					
Male	3,430	3,307	2,840	2,606	2,445
Female	13,818	13,323	11,441	10,496	8,893
Sub Total	17,248	16,630	14,281	13,102	11,338
TOTAL	101,062	104,784	107,187	110,819	118,276

Source: Ministry of Education

Figure 15.1: Pre-primary Gross Enrolment Rate (GER) and Net Enrolment Rate (NER), 2013-2017



 $<sup>^*</sup>$  Provisional

15.9. **Primary Education:** Enrolment in primary schools by class and sex from 2013 to 2017 is shown in Table 15.4. Total enrolment increased marginally from 10.3 million in 2016 to 10.4 million in 2017. Enrolment in Standard one went up by 1.3 per cent to 1,370.3 thousand in 2017. During the same period, boy's enrolment grew by 1.4 per cent to 5,293.9 thousand while that of girls went up marginally to 5,109.8 thousand. The retention rate for boys in Std 8 declined from 78.9 per cent in 2016 to 77.0 per cent in 2017 while that of girls decreased marginally to 76.3 per cent in the review period.

Table 15.4: Primary School Enrolment by Class and Sex, 2013 - 2017

Number ('000)		Total	1,370.3	1,350.9	1,346.2	1,359.7	1,348.6	1,325.0	1,309.0	994.0	10,403.7
Nump	2017*	Girls	664.4	655.2	625.9	665.4	667.5	655.2	625.9	496.3	5,109.8
		Boys	705.9	695.7	693.3	694.2	681.1	8.699	656.1	497.7	5,293.9
		Total	1,352.6	1,337.4	1,338.2	1,362.7	1,318.9	1,308.9	1,297.0	964.0	10,279.7
	2016	Girls	655.8	650.7	623.9	6.699	651.2	650.8	620.9	477.8	,060.3
		Boys	8.969	686.7	684.3	693.4	667.7	658.1	646.1	486.2	5,219.3 \$
		Total	1,361.4	1,331.0	1,317.8	1,341.2	1,298.5	1,272.6	1,236.3	932.0	5,019.7 4,837.9 9,857.6 5,052.5 4,898.5 9,951.0 5,127.9 4,962.9 10,090.8 5,219.3 5,060.3 10,279.7 5,293.9 5,109.8 10,403.7
	2015	Girls	659.4	648.3	641.9	657.3	641.1	633.9	619.7	461.3	1,962.9
		Boys	702.0	682.7	675.9	683.9	657.4	638.7	616.6	470.7	5,127.9
		Total	670.4 1,382.5	644.9 1,324.8	637.7 1,312.2	651.7 1,329.6	628.2 1,268.7	618.5 1,239.9	601.0 1,199.2	446.1 <b>894.1</b>	9,951.0
	2014	Girls	670.4	644.9	637.7	651.7	628.2	618.5	601.0	446.1	4,898.5
		Boys	712.1	6.629	674.5	6.77.9	640.5	621.4	598.2	448.0	5,052.5
		Total	1,369.7	639.8 1,316.0	652.0 1,328.1	645.3 1,317.9	631.5 1,276.3	613.0 1,244.4	560.3 1,120.3	884.9	9,857.6
	2013	Girls	710.5 659.1 <b>1,369.7</b>		652.0	645.3	631.5	613.0	560.3	448.1 436.8 <b>884.9</b>	4,837.9
		Boys	710.5	676.2	676.1	672.6	644.8	631.4	560.0	448.1	5,019.7
		Class	Standard 1	Standard 2	Standard 3	Standard 4	Standard 5	Standard 6	Standard 7	Standard 8	TOTAL

Source : Ministry of Education

 $^*$ Provisional

15.10. Figure 15.2 presents trends in primary school GER and NER from 2013 and 2017. In 2017, the primary school GER declined marginally to 104.0 per cent while the NER increased marginally to 91.2 per cent.

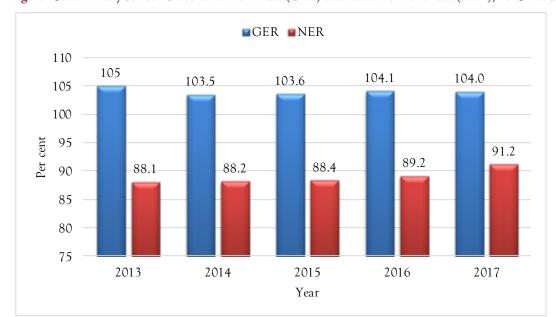


Figure 15.2: Primary School Gross Enrolment Rate (GER) and Net Enrolment Rate (NER), 2013-2017

15.11. **Kenya Certificate of Primary Education (KCPE):** The number of candidates by sex and mean subject score in KCPE from 2013 to 2017 is shown in Table 15.5. In 2017, the number of KCPE candidates increased by 4.3 per cent to 993,718 from 952,390 in 2016. The number of male candidates rose by 5.3 per cent from 473,684 in 2016 to 498,775 in 2017, while that of female candidates increased by 3.4 per cent to 494,943. The national mean score decreased by 0.82 percentage points to 52.16 per cent in 2017. In the review period, performance of most subjects declined with performance in science registering the highest decline of 6.21 percentage points to 55.6 per cent. However, performance in Mathematics improved by 5.75 percentage points to 51.14 per cent in 2017.

Table 15.5: Candidates by Sex and Mean Subject Score in KCPE, 2013-2017

					Number
	2013	2014	2015	2016	2017*
Number of candidates					
Male	426,369	443,258	467,904	473,684	498,775
Female	413,390	437,228	459,885	478,706	494,943
Total	839,759	880,486	927,789	952,390	993,718
Subject		M	lean score (%	<u>(</u>	
English Language	53.06	47.64	49.98	50.52	47.63
English Composition	41.90	41.47	41.38	40.26	39.60
Kiswahili Lugha	45.78	45.04	44.68	49.20	48.38
Kiswahili Insha	52.43	58.00	54.38	48.27	47.88
Mathematics	52.86	52.04	56.16	45.39	51.14
Science	61.82	66.00	55.48	61.82	55.61
Social Studies	54.75	55.26	49.98	57.38	57.22
Religious Education	70.43	68.97	70.20	70.99	69.79
National Mean Score	54.13	54.30	52.78	52.98	52.16

Source: Kenya National Examinations Council

<sup>\*</sup> Provisional

15.12. The Pupil Completion Rate (PCR) and Primary to Secondary Transition Rate (PSTR) from 2013 to 2017 is shown in Figure 15.3. The PCR increased from 83.5 per cent in 2016 to 84.0 in 2017. The PSTR rose from 81.3 per cent in 2016 to 83.1 per cent in 2017.

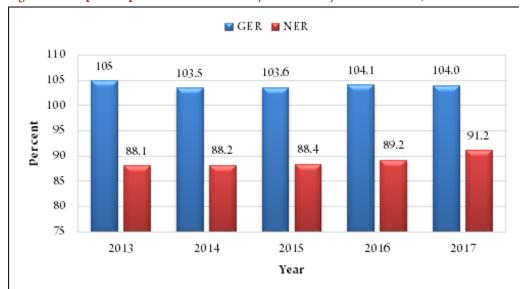


Figure 15.3 Pupil Completion Rate and Primary to Secondary Transition Rate, 2013 - 2017

15.13. **Primary School Teachers:** Table 15.6 shows the number of public primary school teachers by cadre and sex from December 2013 to December 2017. The total number of teachers rose by 1.1 per cent from 214,719 in 2016 to 217,152 in 2017. The number of graduate teachers declined marginally to 21,192 in 2017, while the number of approved teachers increased by 1.7 per cent compared to a 2.8 per cent increase in 2016. The number of SI/diploma teachers increased from 39,121 in 2016 to 39,559 in 2017, mainly due to promotion of P1 teachers, while the number of P1 teachers grew by 1.2 per cent to 103,262 in 2017. The total number of male teachers decreased slightly from 107,495 in 2016 to 106,727 in 2017, while the number of female teachers grew by 3.0 per cent to 110,425 in the same period. The pupil teacher ratio worsened slightly from 40:1 in 2016 to 41:1 during the period under review.

15.14. **Secondary Education:** Table 15.7 presents enrolment in both public and private secondary schools by class and sex from 2013 to 2017. The total enrolment in secondary schools grew by 4.1 per cent from 2,720.6 thousand in 2016 to 2,830.8 thousand in 2017. Further, enrolment of girls increased by 4.3 per cent to 1,380.0 thousand while that of boys went up by 3.9 per cent to 1,450.8 thousand in 2017. The retention rate at Form 4 for boys and girls was 87.8 per cent and 85.1 per cent, respectively.

Table 15.6: Public Primary School Teachers¹ by Cadre and Sex, 2013 - 2017

															Number
		2013			2014			2015			2016			2017*	
Grade	Male	Female	Male Female Total	Male Female	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Graduate		9,448 9,825	19,273	9,353	9,353 10,001	19,354	10,267	10,951	21,218	10,315	10,987	21,302	10,228	10,964	21,192
Approved	29,964	20,195	50,159	29,010	20,722	49,732	59,669	21,050	50,719	29,770	22,352	52,122	30,255	22,745	53,000
S1/Diploma	14,528	19,520	34,048	15,236	20,850	36,086	16,421	22,722	39,143	16,386	22,735	39,121	16,465	23,094	39,559
Dip/Technical	1	1	1	17	26	43	18	27	45	23	32	55	37	37	74
P1	48,287	47,919	96,206	48,118	47,317	95,435	48,426	49,723	98,149	50,965	51,105	102,070	49,704	53,558	103,262
Cert./Technical	1	1	1	30	17	47	31	15	46	36	13	49	29	14	43
Contract Teachers	,	,	,		٠	٠	647	1,024	1,671	,		٠	6	13	22
TOTAL	102,227	97,459	199,686	101,764	98,933	200,697	102,227 97,459 199,686 101,764 98,933 200,697 105,479 105,512 210,991 107,495 107,224 214,719 106,727 110,425 217,152	105,512	210,991	107,495	107,224	214,719	106,727	110,425	217,152

Source: Teachers Service Commission

\* Provisional

1Data is exclusively for public schools and does not include teachers on study leave, disciplinary cases and those performing non-teaching duties.

Table 15.7: Enrolment in Secondary Schools by Class and Sex, 2013 - 2017

														Number ('000')	(,000,)
		2013			2014			2015			2016			2017*	
Class	Boys	Girls	Boys Girls Total	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
Form 1	327.8	289.8	617.5	342.4	331.0	673.4	380.4	352.2	732.7	382.8	375.1	757.9	405.5	396.1	801.5
Form 2	288.2	253.7	542.0	326.4	307.3	633.6	359.8	331.6	691.4	372.5	357.9	730.4	386.4	372.3	758.7
Form 3	267.2	228.9	496.1	294.3	263.7	557.9	331.1	296.4	627.5	345.0	324.3	669.4	356.0	335.7	691.7
Form 4	244.5	204.2	448.7	250.2	216.5	466.7	277.1	230.3	507.4	296.6	266.3	562.9	303.0	275.9	578.9
TOTAL	1,127.7	9.926	2,104.3	TOTAL 1,127.7 976.6 2,104.3 1,213.3 1,118.4	1,118.4	2,331.7	2,331.7 1,348.4 1,210.5 2,559.0	1,210.5	2,559.0	1,396.9 1,323.6 2,720.6 1,450.8 1,380.0 2,830.8	1,323.6	2,720.6	1,450.8	1,380.0	2,830.8

Source: Ministry of Education

\* Provisional

2013

2014

15.15. Figure 15.4 depicts the trend of secondary school GER and NER from 2013 to 2017. Secondary school GER increased from 66.7 per cent in 2016 to 68.5 per cent in 2017 while NER increased from 49.5 per cent to 51.1 per cent during the same period.

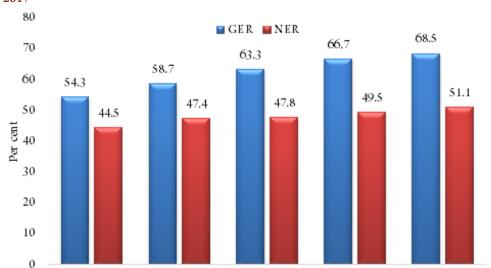


Figure 15.4: Secondary School Gross Enrolment Rate (GER) and Net Enrolment Rate (NER), 2013-2017

15.16. **Kenya Certificate of Secondary Education (KCSE):** The number of KCSE candidates grew by 6.9 per cent from 571,161 in 2016 to 610,501 in 2017 as shown in Table 15.8. During the review period, the number of female candidates increased by 8.7 per cent to 295,623 while that of male candidates increased by 5.2 per cent to 314,878 in 2017. The number of candidates who scored a minimum university entry score of C+ (plus) and above decreased by 21.2 per cent to 70,073 in 2017 from 88,929 in 2016. During the review period, the number of candidates who scored A- (minus) and above declined by 40.3 per cent from 4,786 in 2016 to 2,856 in 2017. The number of candidates who obtained grade C- (minus) and C plain and qualified to join diploma colleges dropped by 4.1 per cent to 101,514 in 2017. During the same period, the number of candidates who scored below grade C- (minus) increased by 16.6 per cent to 438,914.

2015

Year

2016

2017

Table 15.8: National trends in KCSE candidates mean grade by Sex, 2013-2017

KCSE		2013			2014			2015			2016			2017*	
Grade	Male	Female	Total												
A	1,855	298	2,722	2,133	940	3,073	2,024	199	2,685	58	83	141	81	61	142
Α	6,276	3,492	892'6	7,644	4,124	11,768	7,952	4,117	12,069	2,685	1,960	4,645	1,813	901	2,714
B+	10,776	6,237	17,013	12,606	7,208	19,814	13,517	8,410	21,927	6,581	4,394	10,975	4,596	2,748	7,344
В	15,315	9,341	24,656	17,941	11,378	29,319	19,826	13,634	33,460	10,204	7,012	17,216	7,738	4,890	12,628
B	18,216	12,648	30,864	21,997	16,318	38,315	25,312	19,269	44,581	13,649	10,096	23,745	11,631	7,754	19,385
C+	21,836	16,515	38,351	25,978	21,450	47,428	29,556	25,214	54,770	17,238	14,969	32,207	15,828	12,032	27,860
C	26,492	22,079	48,571	30,699	27,989	58,688	33,437	31,476	64,913	22,960	21,832	44,792	21,506	18,968	40,474
C	32,385	28,378	60,763	36,015	34,662	70,677	37,482	36,633	74,115	30,979	30,047	61,026	31,206	29,834	61,040
D+	37,703	34,100	71,803	38,749	37,449	76,198	40,181	38,976	79,157	41,632	39,319	80,951	45,522	42,925	88,447
D	39,672	38,505	78,177	37,365	36,136	73,501	40,442	39,113	79,555	57,487	54,648	112,135	68,572	826,99	135,550
D	28,542	27,251	55,793	24,542	23,174	47,716	25,531	23,127	48,658	77,718	72,211	149,929	88,040	91,341	179,381
E	3,913	3,126	7,039	3,227	2,409	5,636	3,127	2,223	5,350	18,077	15,322	33,399	18,345	17,191	35,536
Total	242,981	202,539	445,520	258,896	223,237	482,133	278,387	242,853	521,240	299,268	271,893	571,161	314,878	295,623	610,501

\* Provisional

Table 15.9: Public Secondary School and Tertiary Teachers by Cadre and Sex1, 2013 - 2017

															Number
		2013			2014			2015			2016			2017*	
Grade	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Trained															
Graduate	32,111	20,378	52,489	37,641	24,795	62,436	40,610	27,081	67,691	43,128	29,120	72,248	43,584	31,137	74,721
Approved	3,787	1,858	5,645	4,269	2,116	6,385	4,082	2,025	6,107	3,845	1,985	5,830	3,659	1,851	5,510
S1/Diploma	3,689	2,614	6,303	4,853	3,687	8,540	5,650	4,242	6,892	5,432	4,180	9,612	6,005	4,515	10,520
Dip/Technical	326	141	467	572	299	871	577	296	873	898	285	853	1,647	292	2,415
Cert./Technical	324	109	433	366	121	487	-	116	466	342	96	438	331	107	438
Contract Teachers.	1	1	1	1	1	1	81	121	202			1	12	15	27
Sub Total	40,237	40,237 25,100 65,337	65,337	47,701 31,01	31,018	78,719	51,350	33,881	85,231	53,315	35,666	88,981	55,238	38,393	93,631
Untrained															
Graduate	134	15	149	1	1	ı	169	30	199	165	35	200	164	30	194
Dip/Technical	9	2	8	9	2	8	9	2	8	4	2	9	9	1	9
Sub Total	140	17	157	9	2	8	175	32	207	169	37	206	170	30	200
Grand Total	40,377	40,377 25,117 65,494	65,494	47,707 31,020	31,020	78,727	51,525	33,913	85,438	53,484	35,703	89,187	55,408	38,423	93,831

Source: Teachers Service Commission

 $^{*}$  Provisional

Data is exclusively for public schools and does not include teachers on study leave, disciplinary cases and those performing non-teaching duties.

15.17. **Secondary School Teachers:** The number of public secondary school and tertiary teachers by sex and cadre from December 2013 to December 2017 is presented in Table 15.9. The total number of teachers increased by 5.2 per cent from 89,187 in 2016 to 93,831 in 2017. During the review period, only 0.2 per cent of the public secondary and tertiary teachers were not trained. The total number of trained female teachers grew by 7.6 per cent to 38,393 in 2017 while that of trained male teachers rose by 3.2 per cent to 55,238 during the review period. In 2017, the number of trained S1/Diploma teachers increased by 9.4 per cent from 9,612 in 2016 to 10,520 in 2017 while the number of trained graduate teachers went up by 3.4 per cent in 2017. The increase is partly attributed to recruitment of teachers by the Government and resumption of duty by teachers after completion of their studies. In the same period, the number of approved teachers declined by 5.5 per cent to 5,510.

15.18. **Enrolment in Teacher Training Institutions:** The overall teacher trainees' enrolment rose marginally to 42,131 in 2017 as shown in Table 15.10. Similarly, enrolment of P1 teacher trainees grew slightly by 1.9 per cent to 39,798 in 2017. The number of teacher trainees in public colleges increased by 3.0 per cent to 21,931 in 2017, while those from private colleges grew by 0.5 per cent to 17,867. During the review period, the number of first year diploma trainees declined by 30.8 per cent while that of first year P1 trainees grew by 3.0 per cent, mainly due to lowering of minimum entry grade. Total enrolment for diploma trainees also decreased by 11.6 per cent to 2,333 in 2017.

Table 15.10: Teacher Trainees Enrolment by Year and Sex, 2013-2017

										Number
Type of Institution/	20	13	20	14	20	15	20	16	20	17*
Certification	Male	Female								
Public primary (P1)										
1st Year	5,249	5,435	4,994	5,536	5,769	6,270	4,489	5,945	4,623	6,123
2 <sup>nd</sup> Year	4,967	5,357	5,249	5,435	5,513	5,266	5,074	5,786	5,226	5,959
Sub Total	10,216	10,792	10,243	10,971	11,282	11,536	9,563	11,731	9,849	12,082
Total Public P1	21,	008	21,	214	22,	818	21,	294	21,	931
Private primary (P1).	6,997	7,392	7,905	8,352	8,102	8,511	8,401	9,372	8,418	9,449
Total Private P1	14,	389	16,	257	16,	613	17,	773	17,	867
Sub Total	17,213	18,184	18,148	19,323	19,384	20,047	17,964	21,103	18,267	21,531
Diploma										
1st Year	316	269	671	516	419	411	573	558	453	330
2 <sup>nd</sup> Year	379	226	317	260	300	280	392	369	418	401
3 <sup>rd</sup> Year	327	199	387	231	305	256	404	344	402	329
Sub Total	1,022	694	1,375	1,007	1,024	947	1,369	1,271	1,273	1,060
Total	18,235	18,878	19,523	20,330	20,408	20,994	19,333	22,374	19,540	22,591
Grand Total	37,	113	39,	853	41,	402	41,	707	42,	131

Source: Ministry of Education

\*Provisional

15.19. **Enrolment in TVET Institutions**: The enrolment in registered TVET institutions from 2013 to 2017 is shown in Table 15.11. Total enrolment in TVET institutions increased by 35.8 per cent from 202,556 in 2016 to 275,139 in 2017, mainly due to registration of more TVET institutions. During the review period, enrolment in national polytechnics and technical universities grew by 31.4 per cent from 36,915 in 2016 to 48,492. At the same time, enrolment in Vocational Training Colleges rose by 29.1 per cent from 80,905 in 2016 to 104,441.

Table 15.11: Enrolment in Technical and TVET Institutions by Sex, 2013 - 2017

Institution         Male           Technical University of Kenya¹.         4,814           Technical University of Mombasa¹.         3,048           Kenya Technical Trainers College            Kissumu National Polytechnic         2,223           Eldoret National Polytechnic            North Eastern National Polytechnic            Kenya Coast National Polytechnic            Kitale National Polytechnic            Kisii National Polytechnic            Kabete National Polytechnic            Kisii National Polytechnic            Kisalagala National Polytechnic            Sigalagala National Polytechnic	2013  le Female 814 2,607 948 1,506 223 1,267 981 1,949	20 Male 4,432 3,250 858 2,926	Emale 2 2,769	2015 Male F	15	20	2016	200	2017*
	Fe 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Male 4,432 3,250 8S8 2,926	<b>Female</b> 2,769	Male				11.11	
		4,432 3,250 858 2,926	2,769		Female	Male	Female	Male	Female
		3,250 858 2,926	i	3,911	2,517	2,425	1,249	3,226	1,432
		858 2,926	1,708	2,835	1,633	1,789	1,236	1,859	1,257
		2,926	597	913	1,119	2,806	2,114	1,750	1,219
			1,551	2,078	1,325	2,941	1,415	3,608	1,887
	: : :	3,194	1,977	2,726	1,484	3,793	2,174	4,965	3,215
	: :	:	:	:	:	744	287	2,727	1,990
	:	:	:	:	:	613	428	256	200
. !		:	:	:	:	736	1,142	822	1,318
	:	:	:	:	:	206	512	826	673
	:	:	:	:	:	1,733	1,217	2,219	1,810
<u>:</u>	:	:	:	:	:	2,048	626	2,607	1,051
Sigalagala National Polytechnic	:	:	:	:	:	1,218	646	1,874	1,282
	:	:	:	:	:	1,001	762	2,399	1,868
Sub Total	.66 7,329	14,660	8,602	12,463	8,078	22,754	14,161	29,290	19,202
Total	20,495		23,262		20,541		36,915		48,492
Other TVET Institutions									
Public Technical and Vocational Colleges <sup>2</sup> 31,956	956 23,989	29,632	21,232	32,221	23,087	17,589	6,569	29,584	17,982
Private Technical and Vocational Colleges <sup>2</sup>	:	:	:	:	:	27,280	30,298	35,951	38,689
Vocational Traning Colleges <sup>3</sup>	942 28,627	45,473	28,222	47,625	29,840	46,340	34,565	59,756	44,685
Sub Total 74,898	98 52,616	75,105	49,454	79,846	52,927	91,209	74,432	125,291	101,356
Total	127,514		124,559		132,773		165,641		226,647
Grand Total	148,009		147,821		153,314		202,556		275,139

Source: Technical Vocational Education and Training Authority (TVETA)

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup>Diploma and Certificate courses only

<sup>&</sup>lt;sup>2</sup> Formerly Technical Training Institutes

<sup>&</sup>lt;sup>3</sup> Formerly Youth Polytechnics

<sup>..</sup> Data not available

15.20. **University Education:** Table 15.12 presents student enrolment in public and private universities from 2014/15 to 2017/18. University enrolment is expected to decline by 7.7 per cent from 564,507 in 2016/17 to 520,893 in 2017/18. Similarly, student enrolment in both public and private universities is expected to decrease by 8.2 per cent and 5.0 per cent, respectively in 2017/18. The decline in enrolment was mainly occasioned by reduction in the number of candidates who met the minimum university entry requirements. Half of the public universities are expected to register a drop in the number of students during the review period with the decrease in enrolment being observed for both male and female students. Apart from Cooperative University, all other universities had more male-students than female-students.

Table 15.12: Enrolment<sup>1</sup> by University and Sex, 2014/15 - 2017/18

	201	1/17	2011	. /1. 6	201	(/==	261-	Number
	2014		2015		2016	•	2017	
University	Male	Female	Male	Female	Male	Female	Male	Female
Public Universities								
Nairobi	42,328	27,618	60,103	38,612	47,137	25,661	46,172	21,655
Kenyatta	43,165	33,714	40,254	31,237	37,216	29,875	39,263	32,770
Moi	22,458	20,838	24,775	21,951	24,608	18,062	18,972	18,935
Egerton	8,661	5,267	7,087	5,433	7,178	5,623	6,917	4,676
Jomo Kenyatta (JKUAT)	20,860	11,469	21,623	12,752	24,747	15,198	25,621	15,724
Maseno	7,356	7,412	11,157	7,115	10,729	7,618	9,383	7,217
Masin de Muliro	7,480	4,213	8,619	5,612	11,344	7,542	9,842	6,985
Technical University of Kenya	5,391	2,024	7,586	2,446	7,460	2,693	8,642	3,025
Technical University of Mombasa	4,186	1,234	5,061	1,814	5,086	2,397	6,038	2,200
Dedan Kimathi	4,715	1,578	4,538	1,558	4,554	1,558	4,261	1,925
Chuka	9,716	3,931	6,469	4,074	8,689	5,844	9,032	6,067
Karatina	3,095	2,209	4,590	3,046	3,631	2,653	3,585	2,700
Kisii	4,780	3,495	7,567	5,979	13,913	8,995	11,581	8,322
Meru	2,825	1,174	3,067	1,272	4,362	2,156	3,466	1,400
Multimedia	754	346	2,568	1,373	2,902	1,753	2,986	1,746
South Eastern	3,676	2,138	4,274	2,624	4,591	3,153	4,856	3,264
Jaramogi Oginga Odinga	2,537	1,638	6,682	3,974	7,529	5,213	5,798	3,331
Laikipia	4,999	4,007	5,297	4,019	5,297	4,019	5,316	4,041
University of Eldoret	9,447	6,215	13,963	9,875	9,675	7,261	7,700	6,275
Kabianga	3,375	2,366	1,249	1,017	4,661	3,855	4,169	3,618
Pwani	2,981	1,603	3,781	2,494	3,989	2,692	2,792	2,238
Masai Mara	4,118	3,036	5,149	3,988	5,340	4,234	5,879	5,096
Kibabii			3,527	1,815	3,610	2,440	4,314	2,842
Embu University					687	677	3,046	2,394
Machakos					1,085	873	4,656	2,941
Murang'a University					1,473	871	2,068	1,304
Rongo					3,029	2,220	2,831	2,235
Kirinyaga University					317	242	1,295	989
Co-operative University					1,259	1,594	813	927
Taita Taveta University					561	280	546	234
Garissa							752	297
Sub Total	217,164	146,170	258,688	174,068	286,840	192,472	262,592	177,373
Private Universities	42,454	37,994	39,125	38,804	43,547	41,648	43,253	37,675
Grand Total	443,		510,		564,		520,	

Source: Individual Universities/ Commission for University Education

15.21. Number of Universities and other Institutions offering Degree Programmes: The number of registered universities and other institutions offering degree programmes from 2013 to 2017 is shown in Table 15.13. The number of public universities increased to 31 in 2017 after Garissa University College was awarded a charter. During the review period, the number of public universities' constituent colleges rose to 5 following the establishment of Bomet and Tharaka-Nithi university colleges. Further, the number of public university campuses established increased significantly from 115 in 2016 to 168 in 2017.

<sup>\*</sup> Provisiona

 $<sup>^{1}</sup>Enrolment\ excludes\ Diploma/Certificate.$ 

Table 15.13: Number of Universities and Other Institutions Offering Degree Programmes by Institution Category, 2013-2017

					Number
Institution Category	2013	2014	2015	2016	2017*
Chartered private universities	17	17	17	18	18
Universities with Letter of Interim Authority	11	13	14	14	14
Newly Registered universities	2	1	1	-	-
Institutions approved for collaboration with universities in					
offering university programmes	33	33	35	35	35
Public universities	22	22	23	30	31
Public university constituent colleges	9	9	10	3	5
Private university constituent colleges	5	5	5	5	5
Public university campuses established <sup>+</sup>	81	87	101	115	168

Source: Commission for University Education

15.22. Table 15.14 shows the number of approved degree programmes from 2013 to 2017. The number of approved public university degree programmes increased by 2.0 per cent to 2,807 while that of private universities rose by 1.6 per cent to 630 in 2017. The number of approved degree programmes for universities with a letter of interim authority increased from 64 in 2016 to 70 in 2017. The number of validated diploma programmes increased from 101 in 2016 to 103 in 2017.

Table 15.14: Number of approved Degree Programmes, 2013 - 2017

					Number
Programme	2013	2014	2015	2016	2017*
Public University Degree Programmes		2,027	2,066	2,066	2,807
Public University Constituent Colleges Degree Programmes			106	106	108
Private University Degree Programmes	362	456	554	620	630
Private University Constituent Colleges Degree Programmes		18	18	21	22
Universities with Letter of Interim Authority		49	56	64	70
Registered Private University Degree Programmes		4	4	4	4
Degree programmes for Collaboration with Universities	38	38	38	41	45
Validated diploma programmes!		88	94	101	103

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Source: Commision for University Education

15.23. **Education Loans:** The total number of loan applicants, beneficiaries and amount of loans awarded to applicants in public and private universities and TVET institutions from 2012/13 to 2016/17 academic years is presented in Table 15.15. The total number of loan applicants increased by 23.5 per cent to 252,928 in 2016/17. During the same period, the number of loan beneficiaries increased by 24.2 per cent to 244,626. The amount of loans awarded increased by 25.0 per cent from KSh 7.6 billion in 2015/16 to KSh 9.5 billion in 2016/17.

15.24. Loan applicants in public universities increased by 15.0 per cent from 183,887 in 2015/16 to 211,501 in 2016/17. The number of beneficiaries in public universities increased by 17.3 per cent from 176,708 in 2015/16 to 207,271 in 2016/17. During the review period, total amount of loans awarded to applicants from public universities increased by 18.5 per cent

<sup>\*</sup> Provisional

<sup>\*</sup>Revised

<sup>\*</sup> Provisional

<sup>..</sup> Data not available

<sup>&</sup>lt;sup>1</sup>Commission resumed validation in 2016

to KSh 8.3 billion in 2016/17 from KSh 7.0 billion in 2015/16. The number of loan applicants from private universities increased by 27.1 per cent to 7,044 while beneficiaries increased by 28.4 per cent to 6,410 in 2016/17. During the review period, the amount of loan awarded to private university loan applicants increased by 33.7 per cent to KSh 257.1 million. Total number of loan applicants from TVET institutions more than doubled to 34,383 in 2016/17 out of which 3,945 were awarded loans. The amount of loan awarded to TVET applicants increased from KSh 359.3 million in 2015/16 to KSh 883.0 million in 2016/17.

Table 15.15: Loan Applicants, Beneficiaries and Loans Awarded by Sex, 2012/13 - 2016/17

					Loan				
							An	nount Awa	rded
		Applican	ts	I	Beneficiar	ies	(	KSh Millio	on)
Year	Male	Female	Total	Male	Female	Total	Male	Female	Total
All Institutions									
2012/2013	84,814	45,932	130,746	77,705	40,219	117,924	3,377	1,720	5,097
2013/2014	108,050	57,645	165,695	97,810	51,836	149,646	4,148	2,299	6,447
2014/2015	120,881	64,872	185,753	117,084	60,448	177,532	4,592	2,353	6,945
2015/2016	132,246	72,513	204,759	127,913	69,116	197,029	4,945	2,628	7,573
2016/2017	163,887	89,042	252,928	158,537	86,089	244,626	6,125	3,327	9,452
<b>Public University</b>									
2012/2013	81,331	43,223	124,554	75,118	38,285	113,403	3,261	1,634	4,895
2013/2014	101,385	53,620	155,005	92,061	48,459	140,520	3,948.5	2,175.2	6,123.7
2014/2015	112,495	59,931	172,426	109,022	55,847	164,869	4,384.5	2,224.2	6,608.7
2015/2016	119,225	64,662	183,887	115,194	61,514	176,708	4,607.8	2,413.7	7,021.5
2016/2017	137,476	74,026	211,501	134,726	72,545	207,271	5,403.0	2,909.3	8,312.2
<b>Private University</b>									
2012/2013	3,483	2,709	6,192	2,587	1,934	4,521	115.9	85.9	202
2013/2014	3,903	2,791	6,694	2,987	2,143	5,130	127.8	90.7	218.5
2014/2015	3,335	2,390	5,725	3,011	2,050	5,061	118.7	80.8	199.5
2015/2016	3,198	2,344	5,542	2,896	2,095	4,991	112.0	80.3	192.3
2016/2017	4,086	2,958	7,044	3,718	2,692	6,410	149.1	108.0	257.1
TVET institutions									
2012/2013 <sup>1</sup>		-	-	-	-	-	-	-	-
2013/2014	2,762	1,234	3,996	2,762	1,234	3,996	71.6	33.3	104.8
2014/2015	5,051	2,551	7,602	5,051	2,551	7,602	88.8	48.2	137.0
2015/2016	9,823	5,507	15,330	9,823	5,507	15,330	224.9	134.4	359.3
2016/2017	22,326	12,058	34,383	20,093	10,852	30,945	573.3	309.6	883.0

Source: Higher Education Loans Board

15.25. Table 15.16 shows the number of bursary applicants, beneficiaries and the amounts awarded to students by the Higher Education Loans Board (HELB) in public universities and TVET institutions from 2012/13 to 2016/17. The total number of bursary applicants increased significantly from 34,985 in 2015/16 to 243,532 in 2016/17, but only 35,653 were awarded bursaries. In total, the amounted of bursary awarded increased by 17.6 per cent from KSh 216.3 million in 2015/16 to 254.4 million in 2016/17.

<sup>\*</sup>Provisional

<sup>&</sup>lt;sup>1</sup>Awarding of bursaries to applicants from TVET instituions started in 2013/14

15.26. The total number of bursary applicants in public universities was 209,149 out of which 19, 952 were awarded. The amount of bursary awarded to applicants from public universities increased by 46.5 per cent to KSh 133.7 million in 2016/17. The number of applicants from TVET institution more than doubled to 34,383 in 2016/17, while the number of beneficiaries increased to 15,701 during the same period. The amount of bursary awarded to applicants from TVET institutions declined from KSh 125.0 million 2015/16 to KSh 120.8 million in 2016/17. This decline is partly attributed to the Government policy of phasing out issuance of bursaries.

Table 15.16: Bursary Applicants, Beneficiaries and Amount Awarded by Sex, 2012/13 - 2016/17

				В	ursary				
		Applican	ıts	F	Beneficiar	ries		nount Aw KSh Milli	
Year	Male		Total	Male	Female	Total	Male	Female	Total
All Institutions									
2012/2013	10,058	3,489	13,547	10,083	3,489	13,572	56	20	76
2013/2014	10,677	4,029	14,706	11,228	4,029	15,257	86	35	121
2014/2015	15,842	6,934	22,776	15,704	6,934	22,638	106	49	155
2015/2016	24,994	9,991	34,985	20,501	9,991	30,492	143	73	216
2016/2017	152,953	90,580	243,532	24,309	11,344	35,653	173	81	254
Public University									
2012/2013	10,058	3,489	13,547	10,083	3,489	13,572	56	20	76
2013/2014	7,915	2,795	10,710	8,466	2,795	11,261	51.3	18.9	70.2
2014/2015	10,791	4,383	15,174	10,653	4,383	15,036	64.8	26.3	91.1
2015/2016	15,171	4,484	19,655	10,678	4,484	15,162	64.8	26.4	91.2
2016/2017	130,627	78,522	209,149	13,967	5,985	19,952	93.6	40.1	133.7
TVET Institutions									
2012/2013 <sup>1</sup>		-	-	-	-	-	-	-	-
2013/2014	2,762	1,234	3,996	2,762	1,234	3,996	34.8	16.2	51.0
2014/2015	5,051	2,551	7,602	5,051	2,551	7,602	41.6	22.7	64.3
2015/2016	9,823	5,507	15,330	9,823	5,507	15,330	78.5	46.5	125.0
2016/2017	22,326	12,058	34,383	10,342	5,359	15,701	79.5	41.2	120.8

Source: Higher Education Loans Board

15.27. Table 15.17 presents Government capitation, loan repayment and loans and bursaries awarded from 2012/13 to 2016/17. Total Government capitation on loans and bursaries and the loan repayments to HELB grew by 5.2 per cent to KSh 10.6 billion in 2016/17. During the review period, GOK loan capitation increased to KSh 6.2 billion, while total loan repayment increased to KSh 4.1 billion.

<sup>\*</sup>Provisional

 $<sup>^{1}</sup>$ Awarding of bursaries to applicants from TVET instituions started in 2013/14

Table 15.17: Government Capitation, Loan Repayments and Loans / Bursaries Awarded, 2012/13-2016/17

KSh Million

		GOK		Total GOK		Total	
	GOK Loans	Bursaries	Total Loan	Capitation and	Total Loans	Bursary	Total Loan
Year	Capitation	Capitation	Repayment	Loan Repayment	Awarded	Awarded	and Bursary
2012/2013	2,265.8	182.4	3,251.8	5,700.0	5,097.2	75.7	5,172.9
2013/2014	2,965.0	192.0	3,205.0	6,362.0	6,447.1	121.2	6,568.2
2014/2015	4,514.0	192.0	3,257.1	7,963.1	6,945.3	155.4	7,100.6
2015/2016	5,858.0	192.0	3,982.6	10,032.6	7,573.1	216.3	7,789.4
2016/2017*	6,177.8	237.0	4,143.0	10,557.8	9,452.3	254.4	9,706.7

Source: Higher Education Loans Board

15.28. **Adult Education:** Details on adult education enrolment by sex and county from 2015 to 2017 are shown in Table 15.18. Adult education enrolment continued to exhibit a declining trend since 2015. Overall enrolment decreased by 24.1 per cent from 271,769 in 2016 to 206,224 in 2017. Overall, females accounted for 70 per cent of the total adult education enrolment. Only nine counties showed some slight increase in adult education enrolment during the year in review. Marsabit, Lamu and Nyandarua had adult education enrolment below 1,000 while Nairobi County had the highest adult education enrolment at 13,307 in 2017.

15.29. Table 15.19 presents the number of adults who passed proficiency tests and those who registered for KCPE for 2016 and 2017. The number of adult learners who passed proficiency tests decreased by 15.8 per cent from 21,172 in 2016 to 17,827 in 2017. Tharaka-Nithi County recorded the highest number of adult learners who passed proficiency tests while Kwale County had the lowest number. The number of private candidates who registered for KCPE declined by 32.2 per cent from 7,552 in 2016 to 5,120 in 2017. Nairobi City County had the highest number of private candidates who registered for KCPE, whereas, Samburu County had the lowest number.

<sup>\*</sup>Provisional

Table 15.18: Adult Education Enrolment by Sex and County, 2015 - 2017

		2015			2016			2017*	
County	Male	Female	Total	Male	Female	Total	Male	Female	Total
Mombasa	1,303	2,246	3,549	498	1,265	1,763	1,434	2,213	3,647
Kwale	1,482	4,844	6,326	1,157	4,029	5,186	725	3,112	3,837
Kilifi	1,971	8,960	10,931	1,491	8,207	9,698	844	5,802	6,646
Tana River	1,727	4,477	6,204	1,206	3,771	4,977	899	2,271	3,170
Lamu	1,115	1,950	3,065	831	1,533	2,364	276	513	789
Taita/Taveta	1,142	2,621	3,763	661	1,060	1,721	518	1,395	1,913
Garissa	3,313	3,369	6,682	4,669	3,478	8,147	3,034	2,247	5,281
Wajir	1,684	1,825	3,509	1,379	1,326	2,705	1,350	1,316	2,666
Man dera	2,336	2,831	5,167	2,062	2,696	4,758	1,487	1,913	3,400
Marsabit	1,002	1,726	2,728	425	1,341	1,766	119	220	339
Isiolo	978	2,095	3,073	473	1,342	1,815	328	913	1,241
Meru	3,156	8,424	11,580	3,875	11,388	15,263	2,070	5,542	7,612
Tharaka Nithi	1,623	4,861	6,484	446	1,606	2,052	488	1,810	2,298
Embu	964	2,646	3,610	1,179	4,003	5,182	740	887	1,627
Kitui	2,239	9,192	11,431	2,039	9,710	11,749	1,385	6,990	8,375
Machakos	1,558	5,842	7,400	946	5,726	6,672	951	5,073	6,024
Makueni	1,665	7,083	8,748	1,641	9,135	10,776	1,978	7,725	9,703
Nyandarua	1,458	3,865	5,323	1,154	3,661	4,815	262	702	964
Nyeri	1,231	4,183	5,414	852	3,348	4,200	761	2,958	3,719
Kirinyaga	1,312	2,346	3,658	845	2,497	3,342	363	1,024	1,387
Murang'a	2,244	7,775	10,019	802	2,872	3,674	705	2,585	3,290
Kiambu	2,216	4,155	6,371	1,596	3,509	5,105	3,426	6,510	9,936
Turkana	1,688	2,279	3,967	2,890	3,992	6,882	1,900	2,483	4,383
West Pokot	1,981	2,486	4,467	1,264	1,518	2,782	1,060	1,491	2,551
Samburu	1,365	2,189	3,554	1,522	2,490	4,012	1,377	2,254	3,631
Transnzoia	1,446	2,040	3,486	960	2,255	3,215	688	983	1,671
Uasin Gishu	2,087	3,897	5,984	1,451	2,827	4,278	1,267	2,439	3,706
Elgeyo/Marakwet	1,568	2,857	4,425	2,143	2,518	4,661	1,827	3,671	5,498
Nandi	2,239	4,146	6,385	1,316	4,107	5,423	2,080	3,506	5,586
Baringo	2,860	4,963	7,823	1,798	3,210	5,008	1,705	2,800	4,505
Laikipia	1,378	2,822	4,200	1,036	2,665	3,701	757	2,145	2,902
Nakuru	9,137	5,945	15,082	7,290	4,109	11,399	3,602	5,707	9,309
Narok	1,881	2,657	4,538	1,457	2,018	3,475			
Kajiado	1,624	2,505	4,129	2,680	3,972	6,652	2,021	 5,444	 7,465
Kericho	2,466	4,863	7,329	2,138	5,161	7,299	1,405	3,087	4,492
Bomet	1,771	4,392	6,163	927	2,551	3,478	645	1,556	2,201
Kakamega	1,260	2,372	3,632	2,057	4,510	6,567	914	2,417	3,331
Vihiga	1,602	4,032	5,634	1,442	5,228	6,670	607	2,142	2,749
Bungoma	3,189	5,187	8,376	3,049	4,643	7,692	832	1,294	2,126
Busia	1,606	3,772	5,378	1,504	3,810	5,314	1,259	3,093	4,352
Siaya	853	1,935	2,788	536	1,839	2,375	719	1,953	2,672
Kisumu	2,884	6,116	9,000	2,098	4,541	6,639	2,270	4,996	7,266
Homa Bay	3,126	7,893	11,019	2,935	7,770	10,705	1,937	4,729	6,666
Migori	2,393	5,086	7,479	2,933 1,955	4,089	6,044	1,018	3,739	4,757
Kisii	3,925	7,598	11,523	2,298	5,278	7,576	2,148	5,356	7,504
Nyamira	2,664	5,599	8,263	2,298	5,314	8,219	2,148 1,728	4,002	5,730
Nairobi City	7,364	9,205	16,569	2,903 5,697	8,276	13,973	5,679	7,628	13,307
TOTAL	102,076	204,152	306,228	85,575	186,194	271,769	63,588	142,636	206,224

 $Source: Directorate \ of \ Adult \ Education, \ Ministry \ of \ Education$ 

<sup>\*</sup>Provisional

<sup>..</sup> Data not available

Table 15.19: Adults who passed Proficiency Tests and Private Candidates Registered for KCPE by Sex and County, 2016 - 2017

								Number
			16				17	
6 1		TP		CPE I		TP		CPE 1
County  Mombasa	Male 28	Female 61	Male 129	Female 74	Male	Female	Male 68	Female 63
Kwale	38	139		16	24 17	43 46	12	7
Kilifi	29	191	23 128	71	56	321	75	62
Tana River	69	240	56	92	77	147	21	4
Lamu	71	211	10	20	80	363	16	14
Taita/Taveta	98	143	13	15	71	265	11	10
Garissa	718	533	132	21	523	112	153	37
Wajir	189	124	28	4	86	24	15	3
Man dera	273	187	68	14	173	79	48	7
Marsabit	2/3	-	-	-	0	0	26	17
Isiolo	24	76	24	16	16	66	12	14
Meru	402	655	208	133	288	953	175	117
Tharaka Nithi	65	245	45	21	452	900	34	11
Embu	99	429	80	51	31	112	32	35
Kitui	37	23	37	23	210	1,034	26	10
Machakos	136	674	34	47	141	658	32	16
Makueni	414	2,121	17	6	72	578	32	6
Nyandarua	29	191	69	52	81	368	18	16
Nyeri	59	234	57	26	103	277	34	15
Kirinyaga	48	148	192	129	86	158	251	162
Murang'a	193	58	15	41	50	186	27	11
Kiambu	88	297	269	256	148	282	89	73
Turkana	68	55	150	99	71	116	153	90
West Pokot	39	64	28	30	45	66	6	4
Samburu	39	97	37	23	26	52	7	2
Transnzoia	44	77	86	72	72	95	66	54
Uasin Gishu	66	70	95	77	131	199	25	26
Elgeyo/Marakwet	102	186	14	24	42	56	21	16
Nandi	73	182	214	282	96	213	146	91
Baringo	14	13	9	9	18	113	3	18
Laikipia	35	96	35	12	25	94	32	2
Nakuru	411	502	149	47	286	512	28	36
Narok	149	148	44	40	107	169	44	36
Kajiado	474	1,503	103	111	120	454	89	60
Kericho	107	290	108	77	110	390	112	168
Bomet	47	139	9	7	25	213	14	8
Kakamega	572	1,042	175	164	144	323	119	107
Vihiga	69	143	57	40	33	177	38	37
Bungoma	149	382	83	48	311	76	102	125
Busia	69	174	54	37	55	209	21	18
Siaya	67	202	41	31	54	200	39	52
Kisumu	66	611	32	49	147	376	110	208
Homa Bay	383	797	131	103	18	88	83	65
Migori	36	22	49	41	150	456	10	4
Kisii	141	343	434	360	109	285	48	38
Nyamira	81	214	81	71	125	379	45	16
Nairobi	187	245	401	317	303	136	327	234
TOTAL	6,595	14,577	4,253	3,299	5,408	12,419	2,895	2,225

Source: Directorate of Adult Education; Ministry of Eduction

\*Provisional

PTP-Proficiency Test Pass

## **Health and Vital Statistics**

# Chapter 16

Overview

he Government has been implementing various programs and projects aimed at attaining a high standard of health as enshrined in the constitution, as well as the targets set in the country's long-term development plan, Vision 2030. This is in addition to attainment of global commitments such as goal number three of the Sustainable Development Goals. The programs undertaken in the review period included; the *Linda Mama* (formerly the Free Maternity), the Health Insurance Subsidy Program (HISP), and the Health Insurance for the Elderly and People with Severe Disabilities (E&PWSD) Program. However, during the review period the sector experienced some challenges including disruption of services due to industrial unrest by doctors and nurses.

- 16.2. The National Government expenditure on Health services is expected to grow by 15.9 per cent from KSh 56.6 billion in 2016/17 to KSh 65.6 billion in 2017/18. Recurrent expenditure is expected to remain at KSh 29.8 billion during the review period, while development expenditure is expected to grow by 33.6 per cent to KSh 35.8 billion.
- 16.3. Pneumonia, malaria and cancer remained among the top three leading causes of death in the country. The national Full Immunization Coverage (FIC) for children below one year decreased from 69 per cent in 2016 to 63 per cent in 2017.
- 16.4. The number of registered medical personnel increased by 9.0 per cent to 160,749 in 2017. In the same period, total enrolment of undergraduate and postgraduate medical students increased by 13.4 per cent from 7,989 in 2015/16 to 9,058 in 2016/17.
- 16.5. The membership in National Hospital Insurance Fund (NHIF) rose by 11.1 per cent from 6.1 million in 2015/16 to 6.8 million in 2016/17, with the bulk (56.8%) coming from the formal sector. During this period, the informal sector registered a growth of 17.0 per cent compared to a 7.0 per cent growth in the formal sector. Total contributions received from members increased by 9.3 per cent to KSh 34.9 billion in 2016/2017.

on Health Services 16.6. Table 16.1 presents National government expenditure on health services from 2013/14 to 2017/18. Expenditure on health services is expected to increase by 15.9 per cent from KSh 56.6 billion in 2016/17 to KSh 65.6 billion in 2017/18. During the review period, recurrent expenditure on health services is expected to remain at KSh 29.8 billion. Recurrent expenditure on hospital services is expected to expand by 15.0 per cent to 15.1 billion and account for over half of total recurrent expenditure in 2017/18. During the review period, development expenditure on health services is expected to increase by 33.6 per cent to KSh 35.8 billion. Development expenditure on public health services is expected to grow by almost five times to KSh 23.6 billion and account for 66.0 per cent of total development expenditure in 2017/18.

Table 16.1: Expenditure on Health Services, 2013/14 - 2017/18

KSh Million

					1101111111111
	2013/14	2014/15	2015/16	2016/17*	2017/18+
Recurrent					
Outpatient services	729.93	1,531.53	1,464.21	1,308.66	811.63
Hospital services	16,776.14	13,766.20	11,897.10	13,159.55	15,139.27
Public health services	1,163.04	3,651.59	1,723.59	6,365.65	7,211.27
Health expenditure not elsewhere classified	2,905.56	9,358.42	4,419.39	8,973.02	6,622.85
Sub-Total	21,574.67	28,307.73	19,504.30	29,806.89	29,785.02
Development					
Outpatient services	5,288.80	5,251.48	4,978.63	10,319.44	8,412.43
Hospital services	2,660.61	802.00	5,476.58	5,725.14	1,538.02
Public health services	8,465.28	6,967.62	4,428.18	5,103.20	23,603.39
Health expenditure not elsewhere classified	207.92	8,452.85	266.95	5,651.28	2,214.91
Sub-Total	16,622.62	21,473.95	15,150.34	26,799.07	35,768.74
TOTAL	38,197.29	49,781.69	34,654.64	56,605.96	65,553.76

Source: KNBS

16.7. Information on the number of registered deaths by major causes from 2013 to 2017 is presented in Table 16.2. Pneumonia, Malaria and Cancer remained the leading causes of death, with pneumonia accounting for 22.0 per cent of the major causes of deaths in 2017. Other major causes of death included Tuberculosis, HIV/AIDS and Anaemia.

Table 16.2: Registered Deaths by Major Causes, 2013 - 2017

Number

Cause	2013	2014	2015	2016	2017*
Malaria	23,789	22,948	20,691	16,000	17,553
Pneumonia	22,918	21,640	22,473	21,295	21,584
Cancer	13,720	14,175	15,714	15,762	16,953
HIV/AIDS	11,448	12,235	11,131	9,471	8,758
Tuberclosis	11,186	10,986	10,183	4,735	9,081
Anaemia	8,124	8,469	8,472	8,165	8,294
Road traffic accidents $^1\dots$	4,942	4,710	5,488	4,809	3,715
Other accidents	4,857	4,187	3,887	4,166	3,874
Heart disease	4,544	5,030	5,799	5,353	4,786
Menengitis	4,265	4,555	4,499	4,374	3,540
Sub-total	109,793	108,935	108,337	94,130	98,138
Others	84,539	89,676	91,868	96,507	90,949
Total	194,332	198,611	200,205	190,637	189,087

Source: Civil Registration Service

 $<sup>^*</sup>$  Provisional

<sup>+</sup> Revised estimates

<sup>\*</sup>Provisional

<sup>&</sup>lt;sup>1</sup>The data includes deaths that occur after the road accidents have been reported

### **Economic Survey 2018**

16.8. Table 16.3 presents FIC for children under one year by County from 2014 to 2017. The national full immunization coverage declined from 69.0 per cent in 2016 to 63.0 per cent in 2017. During this period, most of the counties experienced a decrease in the coverage with only 10 counties experiencing an increase. The highest decrease in coverage occurred in Narok and Nyamira Counties at 24.1 and 22.3 percentage points, respectively, while Laikipia and Turkana Counties had the highest increase at 22.9 and 16.5 percentage points, respectively. The lowest coverage was recorded in Mandera County at 25.4 per cent in 2017.

16.9. Health facility based incidence of disease for the period 2013 to 2017 is shown in Table 16.6. Morbidity decreased by 16.4 per cent from 50.8 million in 2016 to 42.3 million in 2017. This decrease is partly attributed to the public doctors and nurses strikes in 2017 which led to reduced number of patients visiting the public health facilities. Incidence of respiratory system diseases and malaria accounted for 34.0 per cent and 18.7 per cent, respectively of all incidences in 2017.

Table 16.3: Full Immunization Coverage (FIC), Rate of Under-One Year Old Children by County 2013-2017

County	20	13	20	14	20	15	20	16*	20:	17*
County	Number	%	Number	%	Number	%	Number	%	Number	%
Mombasa	26,761	79.7	26,200	72.8	31,662	86.9	29,963	78.7	28,782	74.3
Kwale	23,438	85.2	24,185	66.5	28,033	98.2	23,825	80.0	18,609	58.8
Kilifi	37,051	80.9	36,522	96.0	38,844	81.3	36,866	74.1	29,022	55.1
Tana River	6,553	57.1	6,501	56.1	6,340	60.1	6,670	60.8	6,343	48.1
Lamu	2,990	83.2	3,462	86.5	3,504	90.3	3,012	74.9	2,916	70.4
Taita Taveta	6,886	77.6	8,003	62.6	7,617	82.1	7,074	72.4	6,369	62.6
Garissa	11,768	129.7	15,157	61.9	14,555	61.5	15,852	64.6	13,294	55.2
Wajir	10,706	139.6	12,352	47.8	14,154	55.2	13,510	50.9	12,333	48.6
Mandera	7,813	69.9	10,212	20.4	11,137	26.9	12,790	25.2	11,303	25.4
Marsabit	7,671	92.7	9,425	71.7	9,384	71.9	8,786	71.3	7,235	56.3
Isiolo	4,255	89.6	4,136	61.3	4,240	65.7	3,797	56.2	3,131	46.3
Meru	24,105	59.3	28,522	57.9	27,860	64.6	26,719	60.4	24,716	58.2
Tharaka Nithi	8,748	82.8	7,357	47.7	7,031	60.2	6,557	56.8	6,301	57.1
Embu	13,193	96.1	11,878	73.3	12,303	84.3	11,698	78.8	11,652	81.3
Kitui	24,480	72.2	28,282	69.6	25,160	74.0	23,388	67.8	23,165	65.2
Machakos	25,828	83.8	27,266	77.7	27,216	78.7	27,017	79.3	24,699	76.7
Makueni	20,361	79.7	23,603	81.0	21,983	84.0	21,983	80.6	20,561	76.9
Nyan darua	12,919	69.5	15,030	85.5	15,129	85.7	14,237	79.2	12,348	65.5
Nyeri	13,780	77.2	15,212	75.8	15,031	100.7	14,137	93.8	13,620	75.0
Kirinyaga	11,169	80.0	11,166	85.2	11,662	87.6	11,699	86.2	11,341	79.9
Muranga	14,476	56.1	21,316	85.6	20,553	85.2	18,587	79.6	17,658	67.4
Kiambu	34,402	67.6	45,881	92.3	48,728	100.7	51,009	104.3	53,339	102.9
Turkana	15,248	66.5	20,390	75.0	18,862	64.1	22,512	71.8	23,111	88.3
West Pokot	11,812	48.4	14,819	63.3	13,738	65.6	11,802	54.5	10,957	39.5
Samburu	-	52.9							5,402	47.3
Trans Nzoia	5,313 18,880	55.0	5,797 22,188	61.3 59.8	5,531 23,348	57.7 57.7	5,464 23,895	55.2 56.8	· ·	43.6
Uasin Gishu	-	73.8	26,780		25,548	71.9		64.5	17,113	43.6 74.7
Elgeyo Marakwet	24,653 10,310	65.9	12,280	73.6	12,006	72.9	27,539 11,087	64.1	28,595	54.8
· ,	-			75.7					9,776	
Nandi	20,009	70.6	22,971	67.5	21,417	60.4	18,260	50.5	18,952	58.5
Baringo	14,258	64.8	15,793	58.7	14,526	58.8	14,852	57.7	13,875	55.4
Laikipia	11,755	84.3	11,453	61.9	12,944	68.9	12,512	56.2	12,623	79.1
Nakuru	46,781	79.2	54,150	89.3	53,867	88.0	51,329	80.9	57,324	84.7
Narok	24,394	57.0	26,216	80.0	24,405	62.6	26,092	70.6	22,659	46.5
Kajiado	16,352	58.4	22,999	69.6	22,941	74.6	26,857	83.4	24,007	74.7
Kericho	14,727	52.5	20,908	63.6	19,166	59.1	18,075	56.1	16,082	51.5
Bomet	17,144	58.3	19,785	53.8	19,372	60.9	19,231	58.7	20,015	60.3
Kakamega	56,899	85.9	59,438	79.4	54,651	78.7	53,736	75.2	47,725	69.3
Vihiga	18,439	95.6	17,701	84.6	17,339	79.3	16,326	71.7	10,649	53.1
Bungoma	40,314	60.5	46,262	76.0	44,131	71.3	39,143	61.0	34,836	59.6
Busia	23,046	117.1	27,593	82.6	22,732	73.1	20,998	69.5	17,342	55.6
Kisumu	27,079	74.2	29,981	75.8	30,178	78.0	31,865	80.5	28,088	68.4
Siaya	24,423	76.6	26,870	76.5	25,838	78.7	26,045	77.2	22,757	63.6
Homabay	31,377	80.5	30,786	67.2	28,540	66.4	30,914	70.2	25,447	58.1
Migori	33,142	80.9	33,624	75.8	34,976	76.9	35,549	73.9	29,626	64.3
Kisii	31,422	73.7	34,341	81.5	32,567	65.4	30,983	62.0	24,396	50.9
Nyamira	20,032	97.1	20,690	98.0	20,040	89.5	20,429	89.1	15,509	66.8
Nairobi City	96,196	75.1	113,328	72.5	109,967	77.2	116,608	75.2	119,291	84.2
Kenya	1,003,358	76.0	1,128,811	74.0	1,113,188	73.4	1,101,279	69.0	1,014,894	63.0

Source: Ministry of Health, Division of Family Health

<sup>\*</sup>Provisiona

 $<sup>^{1}\,\,</sup> Children\,\, who\,were\,\, born\,\, between\,\, April\,\, previous\,\, year\,\, and\,\, March\,\, current\,\, year\,\, and\,\, who\,\, received\,\, all\,\, basic\,\, vaccination$ 

Table 16.4: Facility Based Incidence of Disease, 2013-2017

DISE A SE	2013		2014		2015		2016		2017*	
DISEASE	Number	%	Number	%	Number	%	Number	%	Number	%
Malaria	8,808,471	20.2	9,660,992	20.5	7,663,625	16.7	8,325,387	16.4	7,958,213	18.7
Disease of the Respiratory System	14,823,864	34.0	17,998,237	38.3	18,264,778	39.8	19,621,737	38.7	14,482,269	34.0
Diseases of the Skin (Incl. Ulcers)	3,648,361	8.4	4,556,925	9.7	4,755,915	10.4	4,409,229	8.7	3,261,935	7.7
Diarrhoea Diseases	2,226,107	5.1	3,013,256	6.4	3,115,168	8.9	2,892,638	5.7	2,601,827	6.1
Intestinal Worms	349,632	8.0	357,319	8.0	326,297	0.7	763,793	1.5	763,463	1.8
Pneumonia	1,282,996	2.9	1,509,851	3.2	1,508,212	3.3	1,616,913	3.2	1,208,592	2.8
Accidents (incl. fractures, burns etc).	927,861	2.1	1,079,953	2.3	1,154,067	2.5	1,311,911	2.6	1,135,456	2.7
Rheumatism, Joint pains etc	1,081,245	2.5	1,352,350	2.9	1,474,433	3.2	1,572,172	3.1	1,246,731	2.9
Urinary Tract Infections	1,091,371	2.5	1,361,275	2.9	1,541,276	3.4	1,697,479	3.3	1,555,733	3.7
Eye Infection	778,073	1.8	1,002,778	2.1	988,183	2.2	1,004,923	2.0	655,815	1.5
All Other Diseases	8,618,536	19.8	5,145,714	10.9	5,112,489	11.1	7,537,918	14.9	7,466,490	17.5
TOTAL	43,636,517	100	47,038,650	100.0	45,904,443	100	50,754,100	100	42,336,524	100
Common. Minister of Usalth Usalth Monagan Information Contam		1								

Source: Ministry of Health, Health Management Information System  $^{\ast}$  Provisional

16.10. Details on the number of registered health personnel and those in training from 2013 to 2017 are shown in Table 16.5. The total number of registered personnel increased from 147,439 in 2016 to 160,749 in 2017. During the review period, the number of registered health personnel in all cadres with the exception of public health technicians increased. The number of registered health personnel per 100,000 population increased from 329 in 2016 to 349 in 2017. The highest increase in the number of personnel per 100,000 population was recorded for registered nurses, from 106 in 2016 to 112 in 2017. The number of students intraining increased from 17,224 in 2015/2016 to 23,887 in 2016/2017.

Table 16.5: Registered Health Personnel and those in Training, 2016-2017

	R	legistered He	alth Perso	nnel	I T.	
	20	016 <sup>+</sup>	2	017*	In-1r	aining
T 11		No. Per		No. Per		
Type of Personnel <sup>1</sup>	Number	100,000	Number	100,000	2015/2016	2016/2017*
		Population		Population		
Medical Officers	10,376	23	10,921	24	3,213	3,289
Dentists	1,149	3	1,206	3	251	286
Pharmacists	3,169	7	3,373	7	272	491
Pharmaceutical Technologists	8,673	19	9,358	20	783	1,021
(BSc) Nurses	4,002	9	4,819	10	343	675
Registered Nurses	47,480	106	51,420	112	3,142	5,026
Enrolled Nurses	22,820	51	23,068	50	86	263
Clinical Officers	17,092	38	18,759	41	2,600	2,960
Public Health officers	12,564	28	14,855	32	3,360	5,920
Public Health Technicians	6,752	15	6,752	15	88	201
Laboratory Technologists	6,651	15	7,298	16	340	1,139
Laboratory Technicians	1,734	4	2,024	4	396	58
Nutritionists & Dieticians	2,107	5	2,598	6	1,167	1,312
Nutrition & Dietetic Technologists	2,300	5	3,681	8	883	931
Nutrition & Dietetic Technicians	570	1	617	1	300	315
Total	147,439	329	160,749	349	17,224	23,887

Source: Kenya Medical Practitioners & Dentists Board, Pharmacy & Poisons Board, Clinical Officers' Council, Nursing Council of Kenya, Kenya Medical Laboratory Technicians & Technologists Board, Kenya Nutritionists & Dieticians Institute, Public Health Officers & Technicians Council

16.11. The number of undergraduate and postgraduate medical students is expected to increase by 41.9 per cent from 13,798 in 2016/17 to 19,583 in the 2017/18 academic year as shown in Table 16.6. The number of undergraduate students pursuing medicine and surgery are expected to increase from 4,077 in 2016/17 to 4,304 in the 2017/18 academic year. During the same period, the number of undergraduate students undertaking pharmacy and nursing are expected to grow by 11.6 per cent to 1,687 and 7.3 per cent to 4,104, respectively. Postgraduate medical students are expected to increase by 3.6 per cent to 2,468 in 2017/18.

16.12. Table 16.7 shows the number of middle level medical students registered at the Kenya Medical Training College from 2012/13 to 2016/17. The total medical trainees increased by 13.4 per cent from 7,989 in 2015/16 to 9,058 in 2016/17, mainly attributable to an increase in trainees in diploma courses which accounted for 72.9 per cent of the total students. The highest number of medical trainees at the diploma level, were enrolled for Community Health Nursing in 2016/17. At the certificate level, the highest number of students were enrolled for Health Records and Information Technology.

<sup>\*</sup> Provisional

<sup>+</sup> Revised

<sup>&</sup>lt;sup>1</sup> Cummulative number of health personnel

Table 16.6: Undergraduate and Post Graduate Medical Students by Course and Sex, 2013/14-2017/18

		2013/14			2014/15		2	2015/16			2016/17			2017/18*	
Medical Course	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Medicine & Surgery	1,784	1,673	3,457	1,706	1,573	3,279	2,068	1,425	3,493	2,394	1,683	4,077	2,579	1,725	4,304
Nursing	1,042	1,531	2,573	1,197	2,781	3,978	1,041	1,841	2,882	1,414	2,411	3,825	1,543	2,561	4,104
Dental Surgery	147	144	291	201	168	369	157	163	320	204	208	412	248	264	512
Environmental Health	570	473	1,043	571	675	1,246	532	539	1,071	789	801	1,590	890	868	1,788
Pharmacy	389	265	654	550	419	696	544	454	866	822	069	1,512	929	758	1,687
Clinical Medicine	•	1	1	1	•	1	•	•	1	1	•	•	464	378	872
Public Health	•	1	1	1	•	1	•	•	1	1	•	•	338	340	829
Medical Laboratory Sciences.	1	1	1	1	1	1	1	1	1	1	1	1	887	581	1,468
Nutrition & Dietetics	1	1	1	1	1	1	1	1	1	1	1	1	215	523	738
Physiotherapy	1	1	1	1	1	1	1	1	1	1	1	1	162	157	319
Occupational Therapy	1	1	1	1	1	1	1	1	1	1	1	1	25	20	45
Medical Education/Records.	1	1	1	1	•	1	•	1	1	1	1	'	243	250	493
Medical Psychology	1	1	1	1	1	1	1	1	1	1	1	1	48	59	107
Sub-Total	3,932	4,086	8,018	4,225	5,616	9,841	4,342	4,422	8,764	5,623	5,793	11,416	8,601	8,514	17,115
Post Graduate	662	461	1,123	206	724	1,430	1,032	670	1,702	1,427	955	2,382	1,486	982	2,468
Total	4,594	4,547	9,141	4,931	6,340	11,271	5,374	5,092	5,092 10,466	7,050	6,748	13,798	10,087	9,496	19,583

<sup>\*</sup>Provisional " Data unavailable

Table 16.7: Middle Level Medical Trainees+ in Public Medical Training Colleges by Course, 2012/13-2016/17

					Number
Course	2012/13	2013/14	2014/15	2015/16	2016/17*
Certificate in:					
Community Nursing	278	279	280	248	245
Medical Engineering Technology	84	94	80	60	64
Health Records & Information Technology	781	528	712	857	1,125
Nutrition and Dietetics	180	318	317	341	293
Certificate in Orthopaedic Plaster Technology	-	30	60	54	106
Environmental Health Sciences	-	-	-	-	104
SubTotal	1,323	1,219	1,449	1,560	1,937
Diploma in:					
Community Health Nursing	2,662	2,708	2,745	2,165	2,848
Nutrition and Dietetics	138	187	317	237	322
Environmental Health Sciences	589	568	520	509	477
Medical Laboratory Sciences	411	459	459	369	404
Clinical Medicine & Surgery	1,156	1,125	1,140	1,044	991
Medical Engineering Technology	75	118	77	90	93
Community Oral Health	41	47	42	42	45
Dental Technology	39	36	34	32	33
Health Records and Information technology	255	381	381	524	423
Occupational Therapy	44	44	50	42	47
Orthopaedic Technology	35	25	25	20	27
Pharmacy	448	434	444	356	468
Physiotherapy	143	109	169	110	168
Medical Imaging Sciences	165	143	152	159	132
Optometry	18	21	24	22	28
Health Education & Promotion	-	-	30	60	-
Registered Nursing-Mental Health &Psychiatry	50	93	150	150	98
Neurophysiology <sup>5</sup>	16	-	-	-	-
Sub Total	6,285	6,498	6,759	5,931	6,604
Higher Diploma in:			-		
Pharmacy	5	-	-	-	-
Environmental Health Sciences <sup>1</sup>	6	4	3	1	5
Medical Laboratory Sciences <sup>2</sup>	15	18	13	17	5
Nursing <sup>3</sup>	52	163	138	223	251
Clinical Medicine and Surgery <sup>4</sup>	83	112	124	136	133
Medical Engineering <sup>5</sup>	27	-	-	-	16
Ultra Sound Image Pattern Analysis	21	36	39	31	40
Radiography (Therapy)	6	3	2	5	6
Community Health & HIV/AIDS Care	58	33	12	19	4
Health Education & Promotion	18	17	11	9	·
Medical Education	17	11	12	27	27
Orthopaedic manual therapy	=	13	15	30	20
Health Systems Management	-	-	-	-	10
SubTotal	308	410	369	498	517
Total	7,916	8,127	8,577	7,989	9,058

Source: Kenya Medical Training College, Ministry of Health

<sup>\*</sup> Provisional

<sup>+</sup> Revised

 $<sup>^{1}</sup> Includes food \, science \, and \, in spection, epidemiology, solid \, waste \, and \, occupational \, health$ 

 $<sup>^2\</sup> In cludes\ clinical\ chemistry, haematology, histology, parastology, virology, microbiology, bacterial ogy\ and\ blood\ transfusion\ sciences$ 

<sup>&</sup>lt;sup>3</sup> Includes mental & Psychiatry Nursing, Community Health Nursing, pallistive care,nephrology, anaesthetic, intensive care,ophthalmic and PeriOperative nursing

<sup>&</sup>lt;sup>4</sup> Includes paediatrics, orthopaedics, anesthesia, lungs & skin, ENT & audiology, mental health & psychiatry, reproductive health, opthalmology, advanced refraction & low vision and opthamology & cataract surgery 5 Includes Therapeutic equipment option, diagnostic equipment

16.13. National Hospital Insurance Fund (NHIF) Membership: The number of registered active members of the NHIF from 2012/13 to 2016/17 is shown in the Table 16.8 Overall, membership rose by 11.1 per cent from 6,124.3 thousand in 2015/16 to 6,804.9 thousand in 2016/17. During the year under review, the formal sector contributed the bulk of the membership with a share of 56.9 per cent. Over the same period, the informal sector membership registered a growth of 17.0 per cent compared to a 7.0 per cent rise in the formal sector.

Table 16.8: Registered Active Members of the National Hospital Insurance Fund, 2012/13-2016/17

Number ('000')

	2012/13	2013/14	2014/15+	2015/16	2016/17*		
Formal Sector	2,679.4	2,952.4	3,221.6	3,616.2	3,870.4		
Informal Sector	1,115.4	1,498.0	1,991.6	2,508.1	2,934.4		
Total	3,794.8	4,450.4	5,213.2	6,124.3	6,804.9		

Source: National Hospital Insurance Fund

16.14. NHIF Receipts and Pay Outs: Table 16.9 presents NHIF receipts and pay outs from 2012/13 to 2016/17. Receipts from members increased by 9.4 per cent from KSh 32.0 billion in 2015/16 to KSh 35.0 billion in 2016/17. During the review period, the proportion of pay outs to receipts increased by 30.8 percentage points to 75.2 per cent. This increase is partly attributed to enhanced inpatient and outpatient payouts rolled out towards the end of 2016.

Table 16.9: NHIF Receipts and Pay Outs, 2012/2013-2016/2017

KSh Million

	2012/13	2013/14	2014/15	2015/16	2016/17*
Receipts <sup>+</sup>	12,054.9	13,629.1	15,826.2	31,995.7	34,978.2
Pay outs <sup>+</sup>	8,236.2	9,401.4	10,891.1	14,217.0	26,309.1
Proportion of pay outs to receipts	68.3	69.0	68.8	44.4	75.2

Source: National Hospital Insurance Fund

<sup>+</sup> Revised

<sup>\*</sup> Provisional

<sup>\*</sup> Provisional

<sup>+</sup> Revised

## Governance, Peace and Security

Chapter

Overview

 $\P$  he total number of crimes reported to the police increased by 1.3 per cent from 76,9 in 2016 to 77,992 in 2017. Among the crimes reported to the police, other offend against persons: assault, creating disturbance and affray collectively accounted for 28 per cent of all reported cases. Stealing accounted for 14.9 per cent of all reported cases in 20. Nairobi City County command station recorded the highest number of cases, representi 9.7 per cent of all cases reported to the police. The total number of persons reported to ha committed criminal offences decreased by 2.6 per cent from 75,007 in 2016 to 73,069 in 201

17.2. The total number of cases handled by the Ethics and Anti-Corruption Commissi (EACC) increased by 2.3 per cent from 7,917 in 2015/16 to 8,096 in 2016/17. Cases referr to other investigative agencies decreased from 215 in 2015/16 to 136 in 2016/17 wh corruption cases referred for investigation declined by 3.1 per cent from 3,856 in 2015/16 3,735 in 2016/17. The total number of ethics and corruption reports forwarded to Office of t Director of Public Prosecution (ODPP) decreased from 167 in 2015/16 to 143 in 2016/2 In 2017, a total of 384 environmental crimes were reported to the National Environmental Management Authority (NEMA), of which 253 were related to illegal movement or dumpi of waste.

17.3. The number of cases filed in courts decreased by 25.6 per cent from 462,792 in 20 to 344,180 in 2017. Cases disposed of decreased by 26.6 per cent from 426,603 in 2016 313,075 in 2017. Pending cases increased by 6.2 per cent from 499,341 in 2016 to 530,446 2017.

17.4. Total persons committed to prison decreased marginally from 210,227 in 2016 209,870 in 2017. The number of convicted prisoners decreased by 2.5 per cent from 82,4 to 80,404 while those remanded increased by 1.3 per cent from 127,794 in 2016 to 129,4 in 2017. Overall, 39.3 per cent of the persons committed to prison in 2017 comprised convicted prisoners. The daily average prison population increased from 50,900 in 2016 51,021 in 2017.

**Public** 17.5. Crimes reported to police for the period 2013 to 2017 are shown in Table 17.1. To Safety, number of crimes reported to police increased by 1.3 per cent from 76,986 in 2016 to 77,9 Law and in 2017. Other offences against persons increased by 1.0 per cent accounting for 28.9 p Order cent for all crimes reported to police. Reported cases of stealing increased by 12.5 per cent 11,656, accounting for 14.9 per cent of all reported cases of crimes. Offences against moral and those involving dangerous drugs decreased by 11.8 per cent and 9.7 per cent, respective Cases related to dangerous drugs and offences against morality accounted for 7.1 per cent a 7.0 per cent, respectively, in 2017.

Table 17.1: Crimes Reported to the Police, 2013 - 2017

Number Crimes<sup>1</sup> 2016 2017\* 2013 2014 2015 Homicide ..... 2,878 2,649 2,751 2,774 2,648 Offences against morality ... ... ... ... ... 4,779 5,184 6,164 6,228 5,492 19,911 22,295 Other offences against persons ........... 19,344 21,174 22,515 Robbery ...... 3,551 3,011 2,865 2,697 2,713 5,656 5,591 5,621 6,131 6,397 1,848 1,961 1,918 2,136 1,965 Stealing ... ... ... ... ... ... ... ... ... 11,455 10,042 9,528 10,361 11,656 Theft by servant ...... 2,702 2,279 2,184 2,440 2,632 Theft of Vehicles and other thefts ... ... 1,631 1,239 1,111 1,355 1,404 Dangerous drugs ...... 5,525 6,160 4,316 4,850 5,565 Traffic offences ...... 100 45 120 139 69 Criminal damage ... ... ... ... ... ... ... ... 3,603 3,709 3,983 4,307 4,262 Economic crimes ...... 2,750 3,038 3,244 3,503 3,695 57 138 79 92 75 Offences involving police officers ...... 95 53 71 57 86 Offences involving tourists ............... 14 21 19 15 15 6,223 7,047 Other penal code offences ... ... ... ... ... 5,648 6,772 6,250 Total 77,992 71,832 69,376 72,490 76,986

Source: Kenya Police Service

17.6. Table 17.2 shows crimes reported to police by command stations for the period 2014 to 2017. In 2017, 9.7 per cent of all reported crimes were in Nairobi city county command station. During the review period, 30 command stations recorded decline in all crimes reported to the police. Kakamega county command station recorded the highest decline of crimes reported of 33.5 per cent from 2,382 in 2016 to 1,584 in 2017.

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup>Refer to appendix 17.1 for detailed description of crimes

Table 17.2: Crimes Reported to Police by Command Station, 2014 - 2017

					Number
S/No	Command station	2014	2015	2016	2017*
1	Mombasa	2,946	3,194	3,034	2,847
2	Kwale	958	1,097	1,037	851
3	Kilifi	2,362	2,199	2,254	1,692
4	Tana River	525	622	453	402
5	Lamu	316	492	434	385
6	Taita Taveta	1,047	961	755	679
7	Garrissa	850	638	525	452
8	Wajir	438	317	343	425
9	Mandera	252	271	254	446
10	Marsabit	370	468	675	736
11	Isiolo	219	213	507	368
12	Meru	1,971	4,215	5,117	5,151
13	Tharaka-Nithi	659	628	722	846
14	Embu	824	848	1,433	1,633
15	Kitui	722	1,573	1,679	1,946
16	Machakos	738	1,461	2,452	2,633
17	Makueni	561	1,025	1,630	1,593
18	Nyandarua	1,654	1,446	1,473	1,402
19	Nyeri	1,632	1,668	1,792	1,657
20	Kirinyaga	1,776	1,177	1,656	1,613
21	Muranga'	2,501	2,363	2,260	2,402
22	Kiambu	4,449	4,768	6,006	5,603
23	Turkana	787	974	927	1,092
24	West Pokot	739	684	795	670
25	Samburu	371	355	361	432
26	Trans Nzoia	1,610	1,781	1,457	1,674
27	Uasin Gishu	1,872	1,654	2,068	2,072
28	Elgeyo/Marakwet	892	571	579	633
29	Nandi	1,090	989	1,105	1,148
30	Baringo	923	1,035	827	821
31	Laikipia	752	830	1,061	1,220
32	Nakuru	4,525	4,384	4,133	4,313
33	Narok	1,626	1,335	1,308	1,110
34	Kajiado	1,502	1,256	1,435	1,650
35	Kericho	1,577	1,510	1,568	1,524
36	Bomet	1,089	968	897	850
37	Kakamega	2,444	2,514	2,382	1,584
38	Vihiga	771	1,146	886	764
39	Bungoma	2,150	2,852	2,422	2,269
40	Busia	931	1,553	1,633	1,639
41	Siaya	1,452	1,493	1,470	1,321
42	Kisumu	2,249	2,293	2,026	1,858
43	Homa Bay	1,320	1,568	1,400	1,332
44	Migori	1,054	1,282	1,303	1,332
45	Kisii	1,933	2,018	2,180	2,218
43 46	Nyamira	1,933 878	1,124	1,055	1,091
47	· ·		· ·		· ·
	Nairobi City	6,732	4,383	4,954	7,434
48	KAPU <sup>1</sup>	148	132	141	129
49	Railways Police <sup>1</sup>	189	162	122	101
	Kenya	69,376	72,490	76,986	77,992

Source: Kenya Police Service

 $<sup>^*\,</sup>Provisional$ 

 $<sup>^1\,</sup>Kenya\,Airport\,Police\,Unit\,(KAPU)\,and\,Railways\,Police\,are\,fully\,fledged\,police\,command\,stations$ 

17.7. Firearms and ammunition recovered or surrendered, and drugs seized for the period 2013 to 2017 are presented in Table 17.3. The number of firearms recovered was 183 in 2017 compared to 436 in 2016. Ammunition recovered were 2,653 in 2017 compared to 4,694 in 2016.

Table 17.3: Firearms and Ammunition Recovered or Surrendered, and Drugs Seized, 2013 - 2017

	Unit	2013	2014	2015	2016	2017*
Firearms Recovered		-				
Rifles	Number	169	210	141	85	53
Pistols	Number	77	142	81	152	65
Toy Pistols	Number	39	39	108	199	65
Total		285	391	330	436	183
Firearms Surrendered						
Rifles	Number	16	1	1	8	1
Pistols	Number	-	-	-	-	1
Toy Pistols	Number	-	-	-	-	-
Total		16	1	1	8	2
Ammunition (Rounds)						
Recovered	Number	3,712	5,166	5,000	4,694	2,653
Surrendered	Number	499	7	7	17	2
Total		4,211	5,173	5,007	4,711	2,655
Dangerous Drugs <sup>1</sup> seized	Kg	17,122	4,313	4,420		

Source: Kenya Police Service

17.8. Persons reported to have committed criminal offenses by command stations and sex from 2014 to 2017 is shown in Table 17.4. The total number of persons reported to have committed criminal offenses decreased by 2.7 per cent from 75,007 in 2016 to 73,013 in 2017. The number of females reported to have committed criminal offences declined by 11.9 per cent in 2017. In Turkana county command station, the number of persons reported to have committed criminal offence more than doubled from 421 in 2016 to 1,162 in 2017. Kakamega county command station recorded the highest decrease in the number of persons reported to have committed crime from 4,577 in 2016 to 780 in 2017.

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup> Prohibited harmful non pharmaceutical narcotic drugs and psychotropic substances listed in the First Schedule of Narcotic Drugs and Psychotropic Substances (Control) Act No. 4 of 1994

Table 17.4: Persons Reported to the Police to have Committed Crimes by sex and Command Stations, 2014 - 2017

Number 2017\* S/No Command station Male Female Total Male Female Total Male Female Total Male Female Total Mombasa ... ... ... 2,886 1,045 1,185 2,426 3,232 2,435 3,013 Kwale...... 1,176 Kilifi...... 1,481 1,811 1,583 2,058 1,814 2,097 Tana River... ... ... amu....... Taita Taveta...... 1,093 1,054 Garissa..... Wajir... ... ... ... ... Mandera ... ... ... . Marsabit ... ... ... . Isiolo...... 1,292 1,525 2,870 4,162 4,339 1,134 5,473 1,113 4,885 Meru...... 6,113 3,772 Tharaka-Nithi...... Embu... ... ... ... 1.522 1.110 1,437 1.123 1.029 1.475 Kitui ... ... ... ... ... 1,637 1,788 2,198 1,225 1,595 1,380 1,661 Machakos...... 2,802 1,829 2,300 1,929 2,216 1,792 2,112 1,557 1,293 1,516 1,203 1,424 1,173 Makueni ... ... ... Nyandarua...... 1,501 1,243 1,529 1,360 1,609 1,486 1,761 Nyeri...... 1,803 1,330 2,039 1,257 1,558 1,342 1,589 Kirinyaga....... 1,171 1,649 1,554 1,868 Muranga' ... ... ... 2,372 1,333 1,741 2,107 1,667 2,150 2,480 5,003 3,707 Kiambu ... ... ... ... 1,199 4,401 1,304 5,705 1,235 4,942 3,773 1,575 5,348 Turkana....... 1.056 1.162 West Pokot ... ... Samburu...... Trans Nzoia... ... 3,947 1,751 2,214 1,304 1,475 1,189 1,735 Uasin Gishu...... 2,037 1,439 1,661 1,861 2,257 1,434 1,873 Elgeyo/Marakwet... Nandi... ... ... ... 1,047 Baringo... ... ... ... Laikipia.......... 1,072 1,159 1,371 3,564 3,038 3,813 2,787 1,107 Nakuru ... ... ... ... 3,773 2,840 3,947 1,260 1,640 1,476 Narok...... 1,456 1,266 1.108 1.413 1.319 Kaiiado... ... ... ... 1.194 1,075 1,520 Kericho ... ... ... ... 1,566 1,259 1,277 1,020 1,328 Bomet ... ... ... 1,235 4,577 Kakamega ... ... ... 2,694 2,294 2,995 2,901 1,676 Vihiga....... 2,120 1,045 1,185 1.027 3,008 2,138 2,571 1,099 1,557 2,111 2,518 Bungoma... ... ... 1,311 1,358 1,895 1,749 2,172 1,195 1,441 1,254 1,025 1,288 Siaya ... ... ... ... ... 1,170 1,226 1,389 1,046 1,775 2,102 1,388 1,759 1,409 1,772 Kisumu ... ... ... Homa Bay ... ... ... 1,343 1,124 1,256 1,449 1,161 1,042 1,349 Migori ... ... ... 1,525 1,683 2,039 1,275 1,701 2,059 2,142 2,486 Kisii ... ... ... ... 1,115 1,000 1,158 Nyamira ... ... ... 5,575 6,227 8,108 1,285 Nairobi City ... ... 2,309 4,110 1,465 4.581 1,646 4,342 5,627 KAPU...... Railways... ... ... 

Total

Source: Kenya Police Service

62,629 16,248 78,877

55,941 14,574 70,515 58,508 16,499 75,007

58,510 14,503 73,013

<sup>\*</sup> Provisional

#### **Economic Survey 2018**

17.9. The number of persons reported to have committed crime by type of offence and sex from 2013 to 2017 are shown in Table 17.5. The number of persons reported to have committed offences against morality and other offences against persons declined by 15.3 per cent and 6.0 per cent, respectively, in 2017. In the offenses against morality category, the number of persons reported to have committed defilement declined by 22.7 per cent. In the other offenses against person category, persons reported to have committed assault declined by 6.5 per cent in 2017.

17.10. The total number of persons reported to have committed homicides increased by 6.1 per cent to 2,240 in 2017 from 2,112 in 2016. The number of persons reported to have committed suicide increased by 39.4 per cent from 302 in 2016 to 421 in 2017. However, those reported to have committed murder decreased from 1,439 in 2016 to 1,435 in 2017.

17.11. The total number of persons reported to have committed an offense of stealing increased to 11,038 in 2017 from 9,876 in 2016. The number of persons who were reported to have committed offences related to theft of vehicles, theft by servant and theft of stock decreased by 10.3, 7.2 and 6.1 per cent, respectively.

17.12. The number of persons reported to have committed offences related to dangerous drugs decreased by 24.6 per cent from 5,994 in 2016 to 4,519 in 2017. Persons reported to have committed offences relating to criminal damage declined from 4,339 to 4,124 over the same period. Persons reported to have committed economic crimes increased by 3.6 per cent from 3,106 in 2016 to 3,218 in 2017 while those reported for corruption related offences increased from 97 to 275. The number of police officers reported to have been involved in crime declined from 219 in 2016 to 71 in 2017.

Table 17.5: The Number of Persons Reported to have Committed Crime by Type of Offence and Sex, 2013 - 2017

Number 2017\* 2013 2014 2015 2016 Male Female Total Offence Total Male Female Total Male Female Total Male Female Male Female Total Against morality 772 141 913 710 145 855 758 135 893 750 173 923 694 90 784 3,174 422 3,596 3,554 3,896 3,794 313 4,107 3,956 4,512 3,252 235 3,487 Defilement ... ... ... ... ... 342 556 Incest ..... 220 199 16 215 267 24 291 257 31 288 234 53 Unnatural/sodomy ... ... ... 115 9 124 107 6 113 101 8 109 74 7 81 90 17 107 Bestiality ... ... ... ... ... ... 76 55 131 23 4 27 25 5 30 39 5 44 23 3 26 Indecent assault ... ... ... ... 201 270 167 183 179 17 196 147 8 217 69 16 155 28 245 Abduction ...... 55 15 70 60 15 75 46 16 62 48 5 53 66 72 138 Bigamy ...... 32 13 45 6 0 11 1 12 11 2 1.3 15 53 68 Sub-total 4,645 746 5,391 5,370 5,181 519 5,700 5,282 787 6,069 4,591 551 4,826 544 5,142 Other offences against persons 13,460 3,142 16,602 11,574 4,079 15,653 10,788 3,741 14,529 10,838 3,720 14,558 10,256 13,609 Assault ...... 3,353 Creating disturbance  $\dots \dots \dots$ 5,360 1,128 6,488 5,294 1,593 6,887 4,144 1,384 5,528 4,624 1,548 6,172 4,575 1,342 5.917 177 508 181 307 186 576 316 247 Affray (scuffle) .............. 331 434 615 493 892 544 791 Sub-total 19,151 4,447 23,598 17,302 5,853 23,155 15,239 5,311 20,550 16,038 5,584 21,622 15,375 20,317 Homicide 222 Murder ... ... 1.507 214 1.721 1.248 240 1,488 1.115 240 1,355 1.236 203 1.439 1.213 1.435 Manslaughter ...... 42 11 53 30 6 36 44 13 57 49 58 48 11 59 Infanticide ...... 15 45 60 6 25 31 11 19 30 9 26 35 5 21 26 8 37 45 2.5 33 4 2.8 32 17 Procuring abortion ...... 5 29 34 8 18 35 263 327 239 62 301 177 221 224 78 302 330 91 421 64 44 Suicide ... ... ... ... ... ... Causing death by dangerous driving 462 32 494 205 21 226 249 37 286 218 28 246 243 21 264 Sub-total 2,294 395 2,689 1,736 391 2,127 1,604 378 1,982 1,740 372 2,112 1,856 384 2,240 Robery, Breakings and Theft Robbery ..... 4,025 307 4,332 2,983 379 3,362 2,485 298 2,783 2.096 475 2,571 2,192 317 2,509 405 6,176 587 6,763 563 5,889 4,760 Breakings ...... 7,134 7,539 5,326 885 5,645 5,318 555 5,873 2,335 2,461 2,091 182 2,273 1,688 223 1,911 1,682 245 1,927 1,606 203 1,809 Theft of stock ...... 126 Stealing ... ... ... ... ... ... 10,550 1,719 12,269 7,404 2,145 9,549 7,346 1,847 9,193 7,769 2,107 9,876 9,096 1,942 11,038 Theft by servant ...... 2,134 3,052 1,704 841 2,545 1,504 2,171 1,575 2,409 1,553 2,235 Theft of vehicle & other thefts ... 2,294 293 2,587 1.029 135 1.164 820 102 922 1.050 162 1.212 958 129 1.087 Sub-total 28,472 32,240 21,387 4,269 19,169 3,700 22,869 18,932 4,708 23,640 20,723 24,551 Dangeruos Drugs, Criminal Damage, Economic Crimes and Corruption 4,232 4,965 4,829 5,071 923 5,994 570 4,519 Dangerous Drugs ...... 3,670 562 4,424 541 4,111 718 3,949 Criminal Damage ... ... ... 3,471 605 4,076 3,645 878 4,523 3,126 893 4,019 3,455 884 4,339 3,302 822 4,124 2,081 2,637 2,233 913 2,078 831 2,909 2,389 717 2,501 717 3,218 Economic crimes ... ... ... 556 3,146 3,106 Corruption ...... 165 26 247 331 82 15 221 54 275 Offences involving Police officers 38 24 62 913 16 146 54 32 126 93 219 59 12 71 Sub-total 9,401 1,771 11,172 11,293 2,374 12,884 9,616 2,558 11,123 2,632 10,032 2,175 12,207

Source: Kenya Police Service

Note: The number of persons reported to have committed offences may differ with that of crimes reported to the Police (Table 17.1) because a person may commit more than one crime or a crime may be committed by more than one person.

<sup>\*</sup>Provisional

## Corruption

Ethics and 17.13. Table 17.6 shows the number of reports handled and action taken by the Ethics and Anti-Corruption Commission (EACC) for the period 2012/13 to 2016/17. The number of reports referred to other investigative agencies decreased from 215 in 2015/16 to 136 in 2016/17 while the number of corruption reports referred for investigation declined from 3,856 to 3,735. The number of complainants advised on the right authority to report to, increased by 14.3 per cent from 2,568 to 2,934 in the same period.

2016/17

						Number
		2012/13	2013/14	2014/15	2015/16	2016/17*
1	Corruption reports for investigation	1,423	1,950	2,747	3,856	3,735
2	Reports referred to other investigative agencies	111	120	117	215	136
	Reports referred to public service organizations for					
3	administrative intervention	506	561	649	633	600
4	Reports pending for more information	18	65	80	55	64
5	Complainants advised on the right authority to report to	900	868	1,384	2,568	2,934
6	Complainants advised to seek civil redress	270	264	288	48	52
7	Reports with no further action (terminated)	127	178	395	542	575
8	Files forwarded to ODPP	70	75	117	167	143

Source: Ethics and Anti-Corruption Commission

17.14. Table 17.7 presents the number of reports on ethics and corruption forwarded to the Office of the Director of Public Prosecution (ODPP) and action taken for the period 2012/13 to 2016/17. The total number of reports forwarded to ODPP decreased from 167 in 2015/16 to 143 in 2016/17. The ODPP recommended 89 cases for prosecution, 25 for closure and 13 for further investigation in the period under review.

Table 17.7: Reports Forwarded to the Office of the Director of the Public Prosecution and Action Taken, 2012/13 - 2016/17

Number
2016/17*

S/No	Action Taken	2012/13	2013/14	2014/15	2015/16	2016/17*
1	Recommendation to prosecute accepted .	38	43	74	117	89
2	Recommendation to prosecute not accepte	4	1	1	5	8
3	Recommendation for administrative or other action accepted	5	7	8	3	7
4	Recommendation for administrative or other action not accepted	0	1	0	1	0
5	Recommendation for closure accepted	15	14	19	25	25
6	Recommendation for closure not accepted	0	3	3	2	1
7	Files returned for further investigations .	6	6	12	14	13
8	Files awaiting DPP's 1 action	2	0	0	0	0
	Total	70	75	117	167	143

Source: Ethics and Anti-Corruption Commission (EACC)

<sup>\*</sup> Provisional

<sup>\*</sup> Provisional

 $<sup>^{1}</sup>$  DPP - Director of Public Prosecution

17.15. The value of public assets traced, recovered and loss averted by EACC for the period 2012/13 to 2016/17 is presented in Table 17.8. In 2016/17, the value of public assets recovered stood at KSh 239.9 million compared to KSh 420.6 million in the previous financial year. The value of assets loss averted was KSh 6.3 billion in 2016/17 compared to KSh 1.2 billion in 2015/2016.

Table 17.8: Public Assets Traced, Recovered and Loss Averted by EACC, 2012/13 - 2016/17

KSh Million

	Value of Public Assets traced	Value of public Assets recovered	Loss Averted <sup>1</sup>
2012/13	16,380.00	567.41	55,016.50
2013/14	7,214.00	2,068.00	5,600.00
2014/15	3,669.60	140.30	1,600.00
2015/16	3,614.10	420.58	1,244.24
2016/17*	4,913.10	239.92	6,325.70

Source: Ethics and Anti-Corruption Commission

**Environmental** 17.16. Table 17.9 presents the number of environmental crimes reported to NEMA for the Crimes period 2013 to 2017. In 2017, a total of 384 crimes were reported to NEMA out of which 253 were related to illegal movement or dumping of waste. Number of reported crimes related to air and soil pollution increased to 97 and 23, respectively in the period under review. However, reported crimes on water pollution declined to 11 in 2017.

Table 17.9: Environmental Crimes Reported to NEMA, 2013 - 2017

					Number
Type of cases	2013	2014	2015	2016	2017*
Air Pollution	13	72	57	74	97
Water Pollution	34	79	52	17	11
Soil Pollution	11	71	44	11	23
Illegal movement or dumping of waste	8	46	59	229	253
Total	66	268	212	331	384

Source: National Environment Management Authority

**Prosecution** 17.17. Table 17.10 presents the number of registered and convictions on murder cases at the of Murder High Court for the period 2013 to 2017. Total murder cases registered increased marginally Cases from 940 in 2016 to 956 in 2017. During the same period, convictions for murder cases almost doubled from 208 in 2016 to 401 in 2017. The number of registered murder cases varied across High Court stations with those registered at Meru High Court being the highest at 104 in 2017.

 $<sup>^{1}</sup>$ Loss Averted refers to total value of public assets where an attempted illegal acquisition was detected and foiled through pre-emptive investigations by the EACC

<sup>\*</sup>Provisional

# **Economic Survey 2018**

Table 17.10: Prosecution of Murder Cases, 2013 – 2017

Number

High Court	2.0	13	2.0	14	2.0	15	2.0	016	2.0	Number 17*
Station	R	C	R	С	R	C	R	C	R	C
Nairobi	188	18	95	15	118	25	184	11	67	27
Mombasa	95	0	43	16	57	16	40	1	25	21
Kisumu	131	5	5	4	30	3	30	10	32	41
Eldoret	150	41	21	4	89	21	92	13	70	10
Kitale	86	12	77	12	50	18	3	5	17	10
Kakamega		0	70	0	41	0	55	0	50	25
Bungoma		24	124	8	37	3	28	14	35	37
Meru	122	7	43	16	109	44	77	35	104	36
Machakos	67	79	149	6	61	7	23	1	32	9
Kericho	72	15	38	0	14	16	28	18	16	8
Nyeri	61	0	87	0	21	1	11	0	10	3
Kisii	212	15	30	5	79	1	34	0	27	7
Embu	61	4	26	12	27	4	21	6	20	20
Malindi	46	2	71	4	7	11	14	6	16	3
Nakuru	141	22	36	7	21	5	52	2	56	17
Busia	26	6	0	0	27	1	34	24	33	4
Garissa	29	6	29	12	39	0	20	1	15	0
Homa Bay	24	8	5	1	27	12	18	17	37	10
Murang'a			77	9	36	2	32	1	28	1
Kerugoya			200	27	28	0	19	1	10	2
Bomet					48	7	20	8	23	1
Kajiado					3	0	21	0	8	24
Kitui					13	7	15	14	18	7
Voi					5	0	4	1	10	3
Lodwar							21	11	14	11
Naivasha							44	8	22	2
Chuka									6	2
Garsen									3	2
Kabarnet									18	1
Kapenguria									11	0
Kiambu									37	0
Marsabit									8	3
Migori									17	15
Nanyuki									10	13
Narok									6	4
Nyamira									9	4
Siaya									33	18
Makueni									3	0
Total	1,709	264	1,226	158	987	204	940	208	956	401

 $Source: Of fice \ of \ the \ Director \ of \ Public \ Prosecutions$ 

<sup>\*</sup> Provisional

R - Registered murder cases, C - Murder convictions obtained

The 17.18. The number of cases handled by courts of law from 2013 to 2017 is presented in Table **Judiciary** 17.11. The number of cases filed in courts decreased by 25.6 per cent from 462,792 in 2016 to 344,180 in 2017. The number of cases disposed of by courts decreased by 26.6 per cent from 426,603 in 2016 to 313,075 in 2017. The number of pending cases increased by 6.2 per cent from 499,341 in 2016 to 530,446 in 2017.

> 17.19. The number of cases filed in the Magistrate courts decreased by 25.6 per cent from 404,158 in 2016 to 300,655 in 2017. Similarly cases filed in the High Court decreased from 41,999 in 2016 to 20,553 in 2017. The number of cases filed in the Kadhis' courts and Environment and Land courts increased by 47.4 per cent and 83.3 per cent, respectively. Pending cases in the Magistrate courts increased by 9.9 per cent from 333,014 in 2016 to 366,133 in 2017 while those in High court decreased by 6.4 per cent in 2017.

Table 17.11: Cases Handled by the Courts, 2013 - 2017

Number

					Employment				
		Kadhis			& Labour	<b>Envir onment</b>			
	Status of	'	Magistrate	High	Relations	and Land		Supreme	
Year	Case	Court	Courts	Court	Court	Court	Appeal	Court	Total
	Filed	3,462	277,666	63,950	-	-	402	70	342,088
2013+	Pending	2,222	304,080	160,058	-	-	4,209	20	468,367
	Disposed of .	3,677	483,693	18,718	-	-	2,427	59	482,761
	Filed	2,795	461,893	37,938	-	-	446	72	500,349
2014	Pending	2,814	447,748	158,216	-	-	4,287	39	610,290
	Disposed of .	2,203	318,225	39,780	-	-	368	53	358,426
	Filed	1,904	308,602	38,817	3,436	5,551	1,575	61	359,946
2015	Pending	968	305,216	125,813	9,042	19,043	3,017	53	463,152
	Disposed of .	3,750	451,134	71,220	1,129	2,156	2,845	47	507,084
	Filed	3,735	404,158	41,999	6,159	5,329	1,374	38	462,792
2016	Pending	3,256	333,014	127,958	11,309	20,875	2,861	68	499,341
	Disposed of .	1,447	376,360	39,854	3,892	3,497	1,530	23	426,603
	Filed	5,504	300,655	20,553	6,082	9,770	1,578	38	344,180
2017*	Pending	3,015	366,133	119,777	13,723	24,338	3,387	73	530,446
	Disposed of .	5,745	267,536	28,734	3,668	6,307	1,052	33	313,075

Source: Judiciary

### Note:

17.20. The number of judicial officers and practicing lawyers from 2013 to 2017 is shown in Table 17.12. The number of judicial officers decreased from 611 in 2016 to 590 in 2017. The number of magistrates declined from 438 in 2016 to 421 in 2017 while the number of Kadhis increased from 45 in 2016 to 55 in 2017. The number of practicing lawyers increased by 761 to 9,000 in 2017. Female practicing lawyers grew by 12.1 per cent in 2017 compared to male lawyers who increased by 7.2 per cent.

<sup>\*</sup> Provisional

<sup>+</sup> Revised

<sup>1.</sup> Filed cases refer to all cases brought before a court during the year in reference

<sup>2.</sup>Pending cases refer to the cases which had not been determined/resolved by 30th June during the year in reference

<sup>3.</sup>Disposed of cases refers to all cases that were resolved/determined by  $30^{th}$  June during the year in reference.

Table 17.12: Magistrates, Judges and Practicing Lawyers,  $2013 \cdot 2017$ 

															Number
		2013			2014			2015			2016			2017*	
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Magistrates															
Chief Magistrates	27	13	40	25	24	49	23	21	4	28	21	49	28	20	48
Senior Principal Magistrate	. 53	28	81	32	22	54	30	22	52	35	79	61	33	22	55
Principal Magistrate	09	39	66	98	29	88	98	59	88	43	22	65	41	21	62
Senior Resident Magistrate	. 30	42	72	88	46	104	88	46	104	77	79	156	92	78	154
Resident Magistrate	28	09	88	89	86	166	89	86	166	39	89	107	36	99	102
Sub-Total	198	182	380	239	219	458	235	216	451	222	216	438	214	207	421
Kadhis															
Chief Kadhi	П	1	1	1	1	1	1	1	П	П	1	1	1	1	1
Deputy Chief Kadhi	1	1	П	1	•	1	1	•	Н	1	•	1	7	•	2
Principal Kadhi	2	1	2	2	1	2	2	1	2	2	1	2	10	1	10
Kadhi I	∞	1	∞	111	1	11	11	1	11	11	1	11	19	1	19
Kadhi II	18	1	18	20	1	20	20	1	20	30	1	30	23	1	23
Sub-Total	30	0	30	35	0	35	35	0	35	45	0	45	58	0	55
Total Number of Magistrates & Kadhis	228	182	410	274	219	493	270	216	486	267	216	483	569	207	476
Judges															
Supreme Court Judges	S	2	^1	S	2	^	S	2	^	S	2	^	S	2	^
Court of Appeal Judges	18	8	26	18	8	26	18	8	26	18		25	15	7	22
High Court Judges	51	35	98	09	37	26	09	37	26	89	37	96	48	37	88
Sub-Total	74	45	119	83	47	130	83	47	130	82	46	128	89	46	114
Total Judicial Officers	302	227	529	357	766	623	353	263	919	349	262	611	337	253	890
<b>Practicing Lawyers</b>	:	:	6,500	:	:	7,200	4,294	2,885	7,179	4,796	3,443	8,239	5,141	3,859	000'6

Source: Judiciary, Law Society of Kenya \* Provisional

**The Prisons** 17.21. Table 17.13 shows the number of persons committed to prison by sex from the 2013 to 2017. The number of persons committed to prison decreased marginally from 210,227 in 2016 to 209,870 in 2017. Convicted prisoners decreased by 2.5 per cent from 82,433 in 2016 to 80,404 in 2017. The number of persons previously convicted increased by 21.1 per cent from 14,724 in 2016 to 17,824 in 2017. About 10.0 per cent of persons committed to prison were sentenced to less than one month while 23.4 per cent were those serving prison sentences of between one month and 2 years in 2017. Convicted prisoners accounted for 38.3 per cent of the total persons committed to prison in 2017. In 2017, for every 100,000 population there were 450.4 people in prison compared to 476.1 in 2016. The number of deaths occurring in prisons declined to 176 from 187 in 2016.

Table 17.13: Persons Committed to Prison by Sex, 2013 - 2017

	20	13	20	14	20	15	20	16	201	17*
	Male	Female								
Less than 1 Month	14,736	1,644	24,374	2,053	20,597	1,847	16,956	1,337	18,758	1,531
Sentenced to less than $1  \text{Month to} < 2  \text{yrs}$	43,686	5,721	53,313	7,819	43,015	9,574	42,001	8,767	43,218	5,796
Sentenced to 2 yrs or more	7,563	421	15,138	407	10,083	779	11,003	402	8,547	561
Life imprisonment	2,111	45	2,582	42	1,074	87	1,087	120	1,108	74
Death sentence	778	31	2,708	49	998	61	742	18	769	42
	68,874	7,862	98,115	10,370	75,767	12,348	71,789	10,644	72,400	8,004
Total Convicted Prisoners	76,7	736	108	,485	88,	115	82,4	133	80,4	104
Committed for civil debt	556	113	1036	108	472	115	431	103	326	113
Committed to remand	137,974	12,539	124,795	13,966	121,097	12,175	117,687	9,573	118,905	10,122
	138,530	12,652	125,831	14,074	121,569	12,290	118,118	9,676	119,231	10,235
Total unconvicted prisoners	151,	182	139	,905	133	,859	127,	794	129,	466
	207,404	20,514	223,946	24,444	197,336	24,638	189,907	20,320	191,631	18,239
<b>Total Persons Committed to Prisons</b>	227,	918	248	,390	221,	974	210,	227	209,	870
Previously convicted	21,830	1,080	23,670	11,257	15,979	1,704	13,897	827	16,371	1,453
Deaths (Excluding Executions)	623	9	421	3	247	14	178	9	166	10
Prison population per		•				•		•		
100,000 of population	550	5.4	57	8.2	50:	2.7	46′	7.1	450	0.4

Source: Kenya Prisons Service

<sup>\*</sup> Provisional

17.22. Table 17.14 presents the daily average population of prisoners by sex for the period 2013 to 2017. In 2017, the daily average of prison population increased to 51,021 from 50,900 in 2016. During the same period, the daily average convicted prison population increased to 31,749 while the daily average unconvicted population declined by 9.1 per cent.

Table 17.14: Daily Average Population of Prisoners by Sex, 2013 - 2017

					Number
	2013	2014	2015	2016	2017*
Convicted Prisoners					
Males	30,356	30,601	28,889	27,078	30,280
Females	1,575	2,085	1,997	1,889	1,469
<b>Sub-Total</b>	31,931	32,686	30,886	28,967	31,749
Unconvicted Prisoners					
Males	19,166	20,896	21,760	20,060	18,156
Females	1,175	1,688	1,985	1,873	1,116
Sub -Total	20,340	22,584	23,745	21,933	19,272
Total	52,271	55,270	54,631	50,900	51,021

Source: Kenya Prisons Service

17.23. Table 17.15 gives the number of convicted persons committed to prison by age and sex from 2013 to 2017. The number of convicted prisoners decreased by 2.5 per cent to 80,404 in 2017. The convicted prisoners aged under 26 years accounted for 51.5 per cent of the total convicts. There was a decline in the number of female convicts across all age cohorts. The total number of female convicts declined by 24.8 per cent.

Table 17.15: Convicted Persons Committed to Prison by Age and Sex, 2013 - 2017

Number Age cohorts 21-25 26-50 Total Under 16 16-17 18-20 Over 50 Male ... ... 2,247 13,814 20,252 27,615 4,715 68,874 231 2013 Female ... ... 2,420 3,768 5 66 1,115 488 7,862 Total ... ... 14,929 236 2,313 22,672 31,383 5,203 76,736 Male ... ... 139 3,198 18,002 29,662 40,439 7,711 98,115 2014 Female..... 13 105 1,448 2,632 5,500 780 10,370 Total ... ... 152 3,303 19,450 32,294 45,939 8,491 108,485 Male ... ... 107 2,522 14,779 22,984 30,842 4,533 75,767 2015 Female ... ... 13 91 1,735 2,974 6,288 1,247 12,348 Total ... ... 2,613 16,514 25,958 37,130 5,780 88,115 120 Male ... ... 92 1,665 12,040 22,444 29,557 5,991 71,789 2016 Female ... ... 19 211 1,343 2,818 997 10,644 5,256 Total ... ... 111 1,876 13,383 25,262 34,813 6,988 82,433 Male ... ... 108 1,393 11,886 24,559 28,384 6,070 72,400 2017\* Female ... ... 6 31 865 2,560 3,849 693 8,004 114 80,404 Total ... ... 1,424 12,751 27,119 32,233 6,763

Source: Kenya Prisons Service

<sup>\*</sup> Provisional

<sup>\*</sup> Provisional

17.24. Table 17.16 presents the number of convicted prisoners by type of offence and sex from 2013 to 2017. Persons convicted for having committed offenses under the Liquor Act contributed 32.4 per cent of all convicted prisoners in 2017. The number of prisoners convicted for offences related to drugs increased by 23.3 per cent followed by attempts and conspiracies, and against person which increased by 22.7 per cent and 19.7 per cent, respectively. Persons convicted for offences related to order and administration of lawful authority decreased by 10.1 per cent while those imprisoned for liquor offence declined by the same margin over the same period.

**Probation** 17.25. The number of offenders serving probation sentences, community service orders, and and those on aftercare service by sex are shown in Table 17.17. The number of offenders handled **Aftercare** by the Probation and Aftercare service declined by 11.3 per cent from 50,619 in 2016 to 44,890 in 2017. During the period under review, the number of offenders sentenced to community service declined by 21.4 per cent from 37,729 to 29,667 while those placed under aftercare service dropped by 44.9 per cent from 1,604 to 884. The number of offenders on probation increased by 27.1 per cent from 11,286 in 2016 to 14,339 in 2017.

Table 17.16: Convicted Prisoners by Type of Offence and Sex, 2013 - 2017

		2013			2014			2015			2016			2017*	
Type of Offence	Male	Female Total	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Order and															
admin is tration															
of lawful authority	8,862	345	9,207	17,171	415	17,586	10,235	457	10,692	9,113	355	9,468	8,143	366	8,509
Injurious to public	2,947	174	3,121	4,527	188	4,715	3,231	169	3,400	3,127	132	3,259	3,186	139	3,325
Against person	4,838	467	5,305	7,574	496	8,070	5,771	394	6,165	5,084	369	5,453	6,211	318	6,529
Related to property	9,393	374	6,767	13,762	503	14,265	9,382	333	9,715	8,269	334	8,603	7,953	353	8,306
Attempts & conspiracies	1,554	62	1,616	3,720	106	3,826	1,312	75	1,387	1,308	23	1,331	1,593	40	1,633
Employ ment	2,861	611	3,472	4,375	321	4,696	5,851	253	6,104	3,992	297	4,289	4,093	169	4,262
Liquor	12,309	3,899	16,208	18,828	6,485	25,313	18,292	8,564	26,856	20,967	4,969	28,936	20,879	5,145	26,024
Drugs related	3,361	89	3,420	5,246	221	5,467	5,174	249	5,423	4,264	114	4,378	5,243	154	5,397
Various other cases	20,545	1,732	22,277	18,303	1,427	19,730	16,111	1,814	17,925	15,554	1,049	16,603	15,002	1,314	16,316
Registration of persons <sup>2</sup>	2,204	139	2,343	4,609	208	4,817	408	40	448	111	2	113	97	9	103
Total	68,874	68,874 7,862	76,736 98,115	98,115	10,370	108,485	75,767	12,348	88,115	71,789	10,644	82,433	72,400	8,004	80,404

Source: Kenya Prisons Service

Provisional

<sup>1</sup> As categorised in Appendix 17.2

<sup>2</sup> refers to offences outlined in the Registration of Persons Act Cap 107 such as illegal registrations

Table 17.17: Offenders Serving Probation Sentences, Community Service and Aftercare by Sex and Type of Offence, 2016 and 2017

			Probatio	Probation Sentenc	e.			)	Jommuni	Community Service	a			Se	rving A	Serving Aftercare		
Office		2016			2017*			2016			2017*			2016			2017*	
Onence																Mal		
	Male	Male Female	Total	Male ]	Female	Total	Male 1	Female	Total	Male	Female	Total	Male Female		Total	е Бе	Female	Total
Murder (including attempt)	. 60	22	82	152	33	185	3	2	5	4	0	4	8	1	6	52	0	52
Manslaughter	. 92	30	122	91	31	122	\$	15	20	9	0	9	20	0	70	10	2	12
Rape (including attempt)	217	10	227	304	8	312	118	8	126	18	0	18	139	1	140	96	0	96
Assault	957	345	1,302	2,302	869	3,000	431	75	909	326	62	388	105	19	124	28	3	31
Other offences against persons	992	284	1,276	626	309	1,288	440	84	524	312	55	367	29	12	79	29	0	29
Robbery and Allied offences	126	15	141	218	15	233	19	3	22	6	0	6	63	7	99	36	0	36
Breakings	502	21	523	869	18	716	256	16	272	242	7	249	150	0	150	122	0	122
Theft of Stock	. 213	9	219	347	12	359	181	24	205	85	0	85	30	7	32	32	0	32
General stealing	1,417	196	1,613	1,547	174	1,721	885	67	952	629	67	726	430	15	445	232	9	238
Theft of M/vehicle	. 19	S	24	103	10	113	4	0	4	15	0	15	11	0	11	10	1	11
Theft of M/vehicles parts		1	∞	17	4	21	4	0	4	9	0	9	0	0	0	1	0	П
Theft from m/vehicles	. 19	S	24	6	1	10	40	1	41	1	0	П	0	0	0	0	0	0
Theft of bicy cles	16	7	18	13	2	15	98	1	57	1	0	П	П	0	Н	1	0	П
Theft by servant	268	37	305	237	81	318	78	36	114	114	45	159	21	4	25	7	0	2
Dangerous drugs	1,066	258	1,324	656	177	1,136	2,073	703	2,776	1,620	333	1,953	09	10	70	25	П	26
Handling stolen property	163	27	190	232	83	315	216	75	291	92	10	98	18	Т	19	3	1	4
Corruption	35	23	58	26	S	31	3	0	3	9	1	7	0	2	2	0	0	0
Causing death by dangerous driv	v 47	9	53	27	2	29	6	2	11	9	0	9	0	0	0	0	0	0
Other offences against property	609	109	718	707	84	791	583	112	969	629	91	770	89	3	71	35	0	35
All other penal code offences	., 2,108	951	3,059	2,848	226	3,624	26,507	4,594	31,101	21,842	2,969	24,811	299	42	341	88	30	118
TOTAL	8,933	2,353	2,353 11,286	11,816	2,523 14,339	14,339	31,911	5,818	37,729	26,027	3,640 2	29,667	1,490	114 1,604	,604	840	44	884

Source: Probation and Aftercare Service

\* Provisional

1 See Appendix 17.1

**Police,** 17.26. The number of police, prisons and probation officers by sex for the period 2013 to 2017 **Prisons and** is shown in Table 17.18. In the review period, the number of police officers increased by 10.0 **Probation** per cent from 42,649 to 46,894. The number of prison officers increased by 11.3 per cent from officers 21,139 in 2016 to 23,536 in 2017 with female officers accounting for 17.9 per cent of total prison officers. Prison officers in juvenile prisons increased by 18.5 per cent from 399 in 2016 to 473 in 2017. The total number of probation officers increased by 46.8 per cent from 566 in 2016 to 831 in 2017. The number of female probation officers increased by 64.8 per cent to 417 in 2017 bringing their number to near parity with their male counterparts.

Table 17.18: Police, Prisons and Probation Officers, 2013 – 2017

				_		
- 1	N	r		ı_	_	_
			m			

			P	rison Officer	:s	
				in		
		Police <sup>1</sup>	in Adult	J uvenile		Probation
Year	Sex	Officers	Prisons	Prisons	Total	Officers
	Male	37,293	16,488	227	16,715	365
2013	Female	4,852	3,139	51	3,190	286
	Total	42,145	19,627	278	19,905	651
	Male	34,129	16,288	201	16,489	316
2014	Female	5,086	3,067	31	3,098	228
	Total	39,215	19,355	232	19,587	544
'	Male	36,185	16,014	257	16,271	321
2015	Female	6,668	3,054	64	3,118	258
	Total	42,853	19,068	321	19,389	579
	Male	36,274	17,249	308	17,557	313
2016	Female	6,375	3,491	91	3,582	253
	Total	42,649	20,740	399	21,139	566
	Male	39,945	18,984	341	19,325	414
2017*	Female	6,949	4,079	132	4,211	417
	Total	46,894	23,063	473	23,536	831

Source: Kenya Police, Prisons Service and Probation and Aftercare Service

Immigration 17.27. The number of passports and work permits issued, and foreign nationals registered for the period 2013 to 2017 is shown in Table 17.19. The number of passports issued declined by 12.2 per cent from 156,040 in 2016 to 136,990 in 2017. The number of foreign nationals registered dropped by 20.8 per cent to 29,318 in 2017. Work permits issued increased from 5,851 in 2016 to 8,366 in 2017 while work permits renewed increased from 9,547 in 2016 to 10,551 in 2017.

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup> Excludes administration police

Table 17.19: Passports and Work Permits Issued, and Foreign Nationals Registered, 2013 - 2017

Number

Category	2013	2014	2015	2016	2017*
Passports issued	148,940	183,042	151,589	156,040	136,990
Foreign nationals registered	21,920	22,326	25,091	37,033	29,318
Work permits issued	10,411	10,540	7,683	5,851	8,366
Work permits renewed	9,315	10,532	11,125	9,547	10,551

Source: Department of Immigration

# National Identity Cards

17.28. The number of applications, production and collection of national identity (ID) cards by county from 2013 to 2017 is provided in Table 17.20. The number of applicants not previously registered declined by 19.4 per cent from 1,529.4 thousand in 2016 to 1,233.3 thousand in 2017. New identity cards produced declined by 7.6 per cent while those collected increased by 1.8 per cent in 2017.

# Voter Registration

17.29. Table 17.21 presents the number of registered voters in 2016 and 2017. The number of registered voters increased by 23.2 per cent from 15.9 million as at December 2016 to 19.6 million as at December 2017. The increase is partly attributed to the mass voter registration in 2017. The number of male and female voters increased by 28.6 per cent and 18.1 per cent, respectively. The number of voters in the diaspora increased from 2,537 in 2016 to 4,393 in 2017. Prisoners were registered to exercise their right to vote for the first time. Overall, 80.5 per cent of adult population registered as voters.

<sup>\*</sup> Provisional

Table 17.20: New Identity Card Applications Made, Produced and Collected by County, 2013 - 2017

		NPRA	<b>NPR Applications</b>	s			NPRI	NPRIDs Produced	p:			NPRI	NPRIDs Collected	pa	
S/No County	2013	2014	2015	2016	2017*	2013	2014	2015	2016	2017*	2013	2014	2015	2016	2017*
Mombasa	23,104	17,318	20,817	24,046	21,640	41,549	15,653	15,176	26,165	23,255	22,104	17,859	13,500	22,966	24,165
2 Kwale	22,444	17,169	21,513	37,846	21,808	3,137	15,802	14,745	38,688	27,311	24,921	15,969	14,469	33,417	29,828
3 Kilifi	38,326	36,227	41,283	54,127	41,483	26,574	29,382	30,820	50,026	41,641	40,609	29,183	32,753	55,187	43,175
4 Tana River	11,450	4,803	9,149	12,301	6,850	9,572	4,471	5,022	10,196	9,577	5,987	5,152	4,685	6,481	11,533
5 Lamu	1,060	735	2,357	4,539	2,408	24,657	1,625	119	6,129	9,827	3,063	1,513	292	4,069	4,149
6 Taita Taveta	8,263	7,245	6,354	9,566	9,258	10,219	7,323	5,315	10,556	3,248	6,667	6,063	6,316	9,728	9,649
7 Garissa	5,154	6,879	8,060	19,831	6,242	4,088	4,476	4,563	13,813	18,341	4,966	2,832	3,842	7,785	8,781
8 Wajir	6,591	4,225	14,157	20,386	9,189	5,147	3,454	5,033	17,188	15,187	7,961	1,748	1,866	14,201	9,248
9 Man dera	8,845	675	26,585	16,901	13,563	5,935	2,147	2,694	33,518	18,977	5,832	1,778	2,678	24,926	8,539
10 Marsabit	7,551	8,282	8,882	11,667	959'9	8,258	7,307	5,053	12,930	10,599	7,368	5,665	5,090	9,858	7,513
11 Isiolo	3,926	2,071	2,717	3,728	3,446	3,501	1,620	1,554	4,094	5,414	3,042	1,687	1,429	2,221	5,131
12 Meru	43,069	30,646	39,380	73,747	25,892	43,118	27,523	30,079	70,354	47,667	34,093	24,221	22,634	36,206	24,309
13 Tharaka Nithi	7,115	7,457	14,468	20,736	7,557	9,702	7,451	7,321	21,680	9,805	7,672	6,438	4,702	18,920	9,284
14 Embu	12,870	12,329	13,467	26,404	13,670	10,178	10,752	12,021	24,742	15,929	15,783	10,623	10,714	17,101	17,011
15 Kitui	30,138	29,626	32,969	46,591	38,491	32,307	24,728	29,031	48,371	38,547	34,959	26,227	25,142	45,740	39,898
16 Machakos	32,532	29,781	31,036	41,294	37,870	31,998	23,555	24,259	36,323	37,535	32,689	24,875	23,522	30,487	37,450
17 Makueni	28,185	26,248	26,660	33,376	36,014	31,261	21,879	24,419	37,069	36,002	31,972	21,227	20,720	33,468	36,313
18 Nyandarua	11,425	15,526	15,340	29,285	21,095	16,258	12,113	13,881	25,114	21,368	14,449	12,867	13,301	22,892	21,335
19 Nyeri	12,614	16,950	17,641	30,081	18,006	20,730	13,660	16,273	26,764	19,628	16,648	15,137	15,933	23,090	17,865
20 Kirinyaga	9,602	12,102	11,623	27,517	16,164	14,327	9,455	11,578	21,869	18,733	7,970	9,395	10,173	15,581	16,186
21 Muranga	18,772	23,021	24,745	54,021	31,176	15,610	19,526	21,749	43,570	33,699	21,358	20,206	20,204	36,605	53,748
22 Kiambu	29,055	36,921	39,555	64,134	47,335	35,979	30,150	36,354	58,070	52,095	31,551	30,676	33,341	47,227	48,415
23 Turkana	10,397	14,162	24,058	26,556	18,396	15,262	11,546	14,232	15,026	15,567	11,534	6,118	10,386	16,611	13,721
24 West Pokot	11,895	12,363	16,323	34,517	19,050	18,051	6,762	5,865	29,275	22,019	13,898	8,698	5,433	23,094	23,039
25 Samburu	2,699	3,831	6,341	8,868	7,964	3,443	2,222	4,661	8,125	6,982	4,253	2,180	3,149	7,058	6,275
26 Trans Nzoia	16,104	20,593	23,499	28,092	30,731	20,378	14,679	15,952	28,586	31,169	17,841	10,635	15,014	23,019	26,701
27 Uasin Gishu	17,194	20,456	20,138	31,005	31,223	15,558	14,512	16,551	25,288	33,989	14,813	15,979	16,636	24,026	31,792
28 Elgeyo Marakwet	7,985	9,511	10,042	17,368	12,319	8,048	7,409	7,761	14,214	15,931	9,461	8,148	7,701	14,778	14,851
29 Nandi	11,508	9,339	21,113	32,215	29,253	15,194	10,507	13,946	22,143	33,559	13,960	8,284	12,944	20,637	31,696
30 Baringo	8 833	10.746	13 562	75 622	070.00	1900	7 733	72201	377.		1				

Table 17.20: New Identity Card Applications Made, Produced and Collected by County, 2013 - 2017 cont...

				;										:		
			NPI	NPR Applications	sus			NPI	NPR IDs Produced	peo			NPR	NPR IDs Collected	ted	
S/No	County	2013	2014	2015	2016	2017*	2013	2014	2015	2016	2017*	2013	2014	2015	2016	2017*
31	31 Laikipia	8,914	9,814	7,984	18,137	12,059	10,219	7,963	8,693	17,597	13,434	9,476	5,859	9,441	15,601	14,310
32	Nakuru	31,589	45,660	55,237	76,607	59,682	34,782	32,579	36,520	62,504	60,685	32,970	32,800	42,429	56,198	57,533
33	Narok	12,664	15,549	21,469	30,753	23,007	22,101	12,517	6,897	31,614	29,905	17,831	8,529	9,310	27,515	25,886
34	Kajiado	6,451	8,759	10,259	18,529	19,447	18,209	13,349	13,454	20,600	18,430	7,897	6,475	14,334	15,152	18,179
35	Kericho	21,329	23,160	23,077	30,801	28,353	11,586	14,450	16,928	23,979	30,260	22,611	17,509	28,171	23,086	29,638
36	Bomet	11,029	13,896	15,009	24,076	27,136	16,113	12,823	14,767	22,741	28,717	11,598	9,620	14,743	19,357	29,545
37	Kakamega	44,652	55,590	50,910	59,574	62,483	45,618	39,908	44,432	55,388	59,022	44,719	41,456	38,417	51,356	58,715
38	Vihiga	13,653	18,932	17,352	19,812	17,932	45,584	12,291	15,107	19,585	19,481	12,782	12,972	11,941	14,093	18,104
39	Bungoma	40,551	43,971	47,915	55,514	53,513	23,145	39,086	30,013	52,781	50,665	34,669	26,511	25,117	42,983	50,029
40	Busia	18,511	21,667	28,017	30,280	25,726	15,256	21,098	21,377	33,511	30,074	20,052	15,381	16,329	32,681	32,577
41	Siaya	20,591	25,457	35,071	45,097	35,677	34,866	19,430	26,613	41,453	36,528	24,558	19,003	25,691	38,887	34,140
42	Kisumu	26,429	27,123	37,333	39,774	46,898	25,644	21,711	27,062	39,613	43,027	29,627	20,500	26,652	35,158	40,842
43	Homabay	15,360	23,987	33,553	34,782	43,788	20,814	18,321	26,903	36,599	43,094	22,688	17,299	23,640	33,881	38,296
44	44 Migori	23,001	23,594	33,279	40,649	37,348	30,507	18,047	20,014	41,090	34,270	24,241	14,003	18,263	36,770	31,805
45	Kisii	22,298	31,799	32,752	40,140	40,732	20,887	22,662	27,739	40,567	38,418	31,316	21,890	24,230	37,381	41,478
46	46 Nyamira	13,951	20,617	23,066	24,085	22,443	15,758	14,347	16,237	19,506	18,824	15,238	14,780	14,072	18,342	18,010
47	47 Nairobi City	51,950	56,275	61,150	74,233	71,316	53,901	47,901	53,470	75,273	69,203	58,840	70,248	49,554	78,569	69,095
48	Foreign Office <sup>1</sup>	:			•		127	469	899	532	654	127	469	899	532	654
	Total	841,629	913,087	1,097,267	841,629 913,087 1,097,267 1,529,421 1,233,268	1,233,268	954,217	738,064	816,477	816,477 1,431,094 1,322,747	1,322,747	899,582	710,042	766,670	766,670 1,241,637 1,263,510	,263,510

Source: National Registration Bureau

NPR - Not Previously Registred These are produced in Nairobi for Kenyans abroad who applied through foreign office

Table 17.21: Registered Voters, 2016 - 2017

					,					Number	
			Re	Registered Voters	s	Ä	Registered Voters				
	Name of County,	No. of	a	as at 31.12.2016		a	as at 31.12.2017		2017	2017 Coverage (%)	(%)
S/no	Special domains	constituencies	Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Mombasa	9	257,767	192,761	450,528	305,521	274,702	580,223	74.3	75.8	75.0
7	Kwale	4	98,207	104,594	202,801	146,178	134,863	281,041	78.1	62.0	69.5
3	Kilifi	7	180,093	204,532	384,625	263,598	244,470	508,068	83.5	64.7	73.3
4	Tana River	8	46,853	49,791	96,644	61,668	659'95	118,327	91.8	78.2	84.7
S	Lamu	2	29,999	26,042	56,041	38,554	31,222	92,776	103.0	93.3	98.4
9	Taita Taveta	4	65,718	59,585	125,303	86,506	69,210	155,716	80.5	62.9	73.3
^	Garissa	9	64,729	59,584	124,313	87,910	75,440	163,350	70.3	62.2	66.3
8	Wajir	9	64,863	61,170	126,033	88,619	74,283	162,902	70.4	63.8	67.2
6	Mandera	9	62,845	62,043	124,888	94,786	80,856	175,642	51.3	46.8	49.1
10	Marsabit	4	63,006	61,593	124,602	77,390	64,318	141,708	100.5	93.1	0.76
11	Isiolo	2	29,494	30,165	659,65	41,533	33,805	75,338	103.7	91.7	6.76
12	Meru	6	281,455	254,919	536,374	382,022	320,458	702,480	96.3	79.4	87.8
13	Tharaka-Nithi	ю	85,412	83,550	168,962	117,039	96,115	213,154	111.0	85.3	8.76
14	Embu	4	124,236	119,118	243,354	166,099	143,369	309,468	106.4	88.4	97.2
15	Kitui	∞	182,840	208,902	391,742	257,010	217,502	474,512	114.1	77.4	93.7
16	Machakos	∞	263,129	246,473	509,605	347,041	273,213	620,254	109.2	82.1	95.4
17	Makueni	9	169,734	170,903	340,637	239,824	183,486	423,310	108.3	73.6	6.68
18	Nyan darua	S	139,922	141,399	281,321	175,956	159,678	335,634	100.9	85.2	92.8
19	Nyeri	9	193,499	195,081	388,580	245,497	211,452	456,949	2.66	82.7	91.0
20	Kirinyaga	4	148,479	140,582	289,061	184,060	165,776	349,836	94.2	85.2	2.68
21	Murang'a	7	244,168	244,686	488,854	329,825	257,301	587,126	107.6	9.77	92.0
22	Kiambu	12	478,754	468,003	946,757	592,700	588,220	1,180,920	100.4	102.4	101.3
23	Turkana	9	62,946	90,429	153,375	97,496	93,939	191,435	35.4	35.0	35.2
24	West Pokot	4	65,719	69,021	134,740	93,477	86,755	180,232	66.1	56.5	61.1
25	Samburu	8	31,400	37,902	69,305	42,173	40,614	82,787	64.9	58.7	61.7
26	Trans Nzoia	S	145,896	128,437	274,333	184,800	154,822	339,622	71.2	57.7	64.3
27	Uasin Gishu	9	187,170	163,881	351,051	237,952	212,103	450,055	72.5	66.4	69.5
28	Elgeyo/Marakwet	4	73,939	70,761	144,700	100,250	80,414	180,664	85.1	65.8	75.3
53	Nandi	9	147,083	132,342	279,425	188,494	157,513	346,007	74.4	61.9	68.1
30	Baringo	9	95,019	95,015	190,034	126,962	105,296	232,258	26.0	59.9	8.79

Table 17.21: Registered Voters, 2016 - 2017 cont.

									]	Number	
			R	Registered Voters	19	R	Registered Voters				
	Name of County,	No. of	В	as at 31.12.2016		а	as at 31.12.2017		2017	2017 Coverage (%)	(%)
S/no	Special domains	constituencies	Male	Female	Total	Male	Female	Total	Male	Female	Total
31	Laikipia	3	99,014	93,985	192,999	131,232	115,255	246,487	93.6	78.5	85.9
32	Nakuru	11	401,080	368,459	769,539	493,646	455,972	949,618	85.1	78.5	81.8
33	Narok	9	146,338	137,155	283,493	180,316	161,414	341,730	6.69	62.0	6.59
34	Kajiado	S	175,062	153,793	328,855	210,068	201,125	411,193	83.0	9.08	81.8
35	Kericho	9	165,639	147,903	313,542	205,131	170,537	375,668	83.7	72.5	78.2
36	Bomet	S	138,726	131,684	270,410	177,924	144,088	322,012	82.5	65.6	74.0
37	Kakamega	12	312,331	315,511	627,842	401,742	341,994	743,736	95.8	72.2	83.3
38	Vihiga	S	103,987	119,090	223,077	154,746	117,663	272,409	111.4	0.69	88.1
39	Bun goma	6	242,632	228,001	470,633	306,106	253,744	559,850	91.2	69.4	79.8
40	Busia	7	141,809	147,463	289,272	189,671	161,377	351,048	108.3	78.0	91.9
41	Siaya	9	172,845	202,778	375,623	254,660	203,293	457,953	115.1	73.7	92.1
42	Kisumu	7	223,408	223,282	446,690	289,661	249,549	539,210	6.66	82.4	91.0
43	Homa Bay	8	178,715	203,688	382,403	254,957	221,918	476,875	105.0	76.5	89.5
4	Migori	8	155,895	166,875	322,770	206,881	181,752	388,633	89.1	0.69	78.4
45	Kisii	6	228,889	224,857	453,746	298,723	247,857	546,580	95.6	6.99	80.0
46	Nyamira	4	120,347	115,363	235,710	151,426	127,427	278,853	90.2	65.4	76.9
47	Nairobi City	17	1,045,503	789,613	1,835,116	1,154,482	1,096,371	2,250,853	81.8	74.8	78.2
	Sub-Total	290	8,136,597	7,742,764	15,879,361	10,462,312	9,139,190	19,601,502	88.7	73.3	80.5
48	Diaspora	10	1,783	754	2,537	2,272	2,121	4,393	:	:	:
49	Prisons	103	1	1	1	4,564	964	5,528	:	:	:
	Total		8,138,380	7,743,518	15,881,898	10,469,148	9,142,275	19,611,423	,	ı	1

Source: Independent Electoral and Boundaries Commission

**Refugees in** 17.30. Table 17.22 presents the number of refugees by age and sex from 2013 to 2017. The Kenya registered refugee population declined by 1.3 per cent from 494,863 in 2016 to 488,415 in 2017. This was partly due to the voluntary repatriation of refugees from Dadaab camp. Adult refugee population increased by 2.2 per cent from 210,718 to 215,312 while child refugee population reduced by 3.9 per cent to 273,103 in 2017.

Table 17.22: Refugees and Asylum Seekers by Age and Sex, 2013 - 2017

					Number
Category	2013	2014	2015	2016	2017*
Children (< 18 yrs)					
Male	173,544	173,573	174,344	149,972	134,109
Female	157,070	155,350	157,276	134,173	138,994
Sub Total-children	330,614	328,923	331,620	284,145	273,103
Adults (18+ yrs)					
Male	151,227	123,991	129,616	100,781	103,299
Female	135,382	132,449	132,645	109,937	112,013
Sub Total-adults	286,609	256,440	262,261	210,718	215,312
Total (all ages)					
Male	324,771	297,564	303,960	250,753	237,408
Female	292,452	287,799	289,921	244,110	251,007
Total	617,223	585,363	593,881	494,863	488,415

Source: Refugee Affairs Secretariat

# Gender and **Development**

17.31. The Government continues to commit itself to socially equitable society through various affirmative actions such as empowerment of women. Women group registration, contributions and source of loans is shown in Table 17.23. The number of registered women groups is expected to grow by 1.3 per cent to 158,768 in 2017/18 from 156,792 in 2016/17. The total membership of women groups is expected to increase from 6.3 million in 2016/17 to 6.4 million in 2017/18. The group contributions increased by 1.1 per cent to KSh 639.5 million in 2017/18.

Table 17.23: Women Groups Registration, Contributions and Source of Loans, 2013/14 - 2017/18

		Women Grou	ıps	Uwez	zo Fund	Women Ent	erprise Fund
	Number of	Number of	Group contributions	Number of	Fund disbursed <sup>1</sup>	Number of	Fund disbursed
	Groups	Members			(KSh Millions)		(KSh Million)
2013/14	148,190	5,872,172	585.2			159,248	1,055.6
2014/15	150,857	6,024,848	603.3	491,352	4,240.4	176,615	1,604.8
2015/16	154,425	6,177,492	625.0	373,693	874.7	178,375	2,285.6
2016/17	156,792	6,297,320	632.4	63,245	439.5	143,205	2,212.4
2017/18*	158,768	6,357,428	639.5	65,000	500.0	151,258	2,225.0

Source: Ministry of Labour and Social Protection, Uwezo Oversight Board and Women Enterprise Fund

17.32. Funds disbursed by the Government through the Uwezo Fund is expected to increase from KSh 439.5 million in 2016/17 to KSh 500.0 million in 2017/18. The number of beneficiaries is expected to increase to 65,000 in 2017/18.

<sup>\*</sup>Provisional

<sup>&</sup>lt;sup>1</sup>Funds disbursed from Uwezo fund for 2016/17 are provisional while 2017/18 are budget estimates

17.33. Women Enterprise Fund provides business support services such as start-ups, expansion, capacity building, marketing, promotion of linkages and infrastructure support to women groups. In 2017/18, the loans disbursed by the Women Enterprise Fund are expected to go up by 0.6 per cent from KSh 2,212.4 million in 2016/17 to KSh 2,225.0 million in 2017/18. The number of beneficiaries is expected to increase by 5.6 per cent to 151,258 in 2017/18.

17.34 Participation of women and men in key decision making positions is shown in Table 17.24. The number of women in the Parliament increased from 87 in 2016 to 97 in 2017. Number of women Cabinet Secretaries increased from 5 in 2016 to 6 in 2017. The proportion of women Principal Secretaries decreased from 36.6 per cent in 2016 to 20.0 per cent in 2017. For the first time women were elected as Governors during the August 2017 General election.

Table 17.24: Key Decision Making Positions by Sex, 2016 - 2017

		1	2016			20	017*	
		Number				Number		
Position	Female	Male	Total	(%)Female	Female	Male	Total	(% )Female
Cabinet Secretary	5	15	20	25.0	6	16	22	27.3
Principal Secretary	15	26	41	36.6	8	32	40	20.0
Diplomatic Corp	18	46	64	28.1	16	42	58	27.6
Deputy Secretary	66	149	215	30.7	74	156	230	32.2
Gov ernor	-	47	47	-	3	44	47	6.4
Deputy Governor	9	38	47	19.2	7	40	47	14.9
National Assembly	69	280	349	19.8	76	273	349	21.8
Senator	18	49	67	26.9	21	46	67	31.3
Member of the County Assembly	761	1,463	2,224	34.2	745	1,479	2,224	33.5
Supreme Court Judge	2	5	7	28.6	2	5	7	28.6
Court of Appeal Judge	7	18	25	28.0	7	15	22	31.8
High Court Judge	37	59	96	38.5	54	77	131	41.2
Mag is trate	216	222	438	49.3	207	214	421	49.2
Kadhis	-	45	45	-	-	55	55	-
County Commissioner	18	29	47	38.3	17	30	47	36.1
Sub County Commissioner	40	255	295	13.6	44	251	295	14.9
Chiefs	126	2,464	2,590	4.9	137	2,453	2,590	5.3
Assistant Chief	489	5,397	5,886	8.3	504	5,382	5,886	8.6

Source: Ministry of Interior and Coordination of National Government, National Assembly, Foreign Affairs, Judicial commission service and Office of the Attorney General

# Protection

Social 17.35. The social protection fund was established to benefit the elderly of age 65 years and above, Orphaned and Vulnerable Children (OVC), with an aim of reducing poverty and improve access to essential services. Allocation and disbursement of funds for social protection by the National Government is as shown in Table 17.25. The funds allocated to older persons is expected to increase by 8.6 per cent from KSh 7,329.5 million in 2016/17 to KSh 7,962.3 million in 2017/18. Direct cash disbursement is expected to increase by 9.5 per cent from KSh 6,699.6 million in 2016/17 to KSh 7,334.5 million in 2017/18. The funds allocated for the Orphans and Vulnerable Children (OVC) is expected to increase by 5.4 per cent from KSh 8,071.6 million in 2016/17 to KSh 8,507.6 million in 2017/18 while direct cash disbursed is expected to increase by 11.5 per cent to KSh 7,925.0 million in 2017/18.

Table 17.25: Funds for Older Persons and, Orphaned and Vulnerable Children, 2013/14 - 2017/18

		Older Person	s	Orphans	and Vulnerable	Children
	Number of Beneficiary	Allocation	Direct cash Disbursement	Number of Beneficiary	Allocation	Direct cash Disbursement
	Households	(KSh Million)	(KSh Million)	Households <sup>1</sup>	(KSh Million)	(KSh Million)
2013/14	121,625	3,168.0	2,919.0	188,538	4,763.1	4,524.9
2014/15	218,497	5,501.5	5,243.9	255,470	5,957.6	6,131.3
2015/16	310,223	7,966.3	7,445.3	351,650	9,746.3	8,439.6
2016/17	279,150	7,329.5	6,699.6	353,000	8,071.6	7,106.0
2017/18*	310,000	7,962.3	7,334.5	353,000	8,507.6	7,925.0

Source: Ministry of Labour and Social Protection

**Developments** 17.36. The Government continued to implement reforms in the governance justice law and order sector. In the Judiciary, more high court stations were opened while the Judiciary Committee on Elections revised and gazetted election rules of procedure for the different courts. The Judiciary also conducted intensive refresher training for the Judges and Magistrates to handle electoral disputes. In 2017, the Judiciary opened 12 new High Court stations increasing the number of counties with High Court station to 38.

> 17.37. On security, the National Police Service acquired anti-personnel carriers, helicopters, vehicles and recruited more police officers. Other reforms in the NPS included career progression guidelines and review of basic training curriculum.

> 17.38. National Environmental Management Authority implemented a National Solid Waste Management Strategy to guide sustainable solid waste management in the country to ensure a healthy, safe and secure environment for all. It is in this regard that all plastic carrier bags used as secondary packages were banned with effect from August 2017.

<sup>\*</sup> Provisional

<sup>&</sup>lt;sup>1</sup>The beneficiaries are paid in 6 bi-monthly payment cycles. Not all the beneficiaries might have gotten all the payments

Appendix 17.1: Classification of Offences by the Kenya Police Service Based on the Kenyan Penal Code

CODE	OFFENCES	CATEGORY OF OFFENCES	CODE	OFFENCES	CATEGORY OF OFFENCES
1	HOMICIDE	a) Murder	8	THEFT BY	a) Stealing by Directors
		b) Manslaughter		SERVANT	b) Stealing by employee/servant
		c) Infanticide	9	VEHICLE AND	a) Theft of M/V
		d) Procuring Abortion		OTHER THEFTS	b) Theft from M/V
		e) Concealing Birth			c) Theft of M/V part
		f) Suicide			d) Theft of M/Cycle
		g) Causing Death by dangerous	10	DANGEROUS	a) Possession
		Driving		DRUGS	b) Handling
					c) Trafficking
2	OFFENCES	a) Rape			d) Cultivating
	AGAINST	b) Defilement			e) Usage
	MORALITY	c) Incest	11	TRAFFIC	a) Taking and Driving Motor
		d) Unnatural Offences(Sodomy)		OFFENCES	Vehicle without Authority
		e) Bestiality			b) Driving under influence of
		f) Indecent assault			alcohol
		g) Abduction			
		h) Bigamy	12	CRIMINAL	a) Malicious Damage
				DAMAGE	b) Arson
3	OTHER	a) Assault			c) Negligent Acts
	OFFENCES	b) Creating Disturbance			
	AGAINST	c) Affray	13	ECONOMIC	a) Obtaining by False Pretence
	PERSONS			CRIMES	b) Curren <i>c</i> y Forgery
					c) Other Fraud/Forgery Offences
4	ROBBERY	a) Robbery			
		b) Robbery with Violance			
		c) Carjacking	14	CORRUPTION	a) Soliciting for Bribe
		d) Robbed of M/V			b) Accepting Bribe
		e) Cattle Rustling			c) Accept Free Gifts
					d) Demanding by false pretence
5	BREAKING	a) House Breaking			e) Other Corruption Offences
		b) Burglary			
		c) Other Breakings	15	OFFENCES	a) Soliciting for Bribe
6	THEFT OF STOCK			INVOLVING	b) Accepting Bribe
				POLICE	c) Accept Free Gifts
7	STEALING	a) Handling Stolen Property		OFFICERS	d) Demanding by false pretence
		b) Stealing from Person			e) Other Criminal Offences
		c) Stealing by Tenants/lodgers	16	OFFENCES	a) Bag Snatching
		d) Stealing from a building		INVOLVING	b) Other offences Against Tourists
		e) General Stealing		TOURIST	c) Other Offences involving Tourist

### **Appendix 17.2: Description of Offences**

Order and administration of lawful authority	Treason, incitement to mutiny, aiding civil disobedience
Injurious to public	Stealing government property, stealing by person in public service, stealing from state c
Against person	Assault, grievous harm, murder etc
Related to property	Theft, robbery with violence, arson
Attempts and conspiracies	Attempts to commit offences, neglect to prevent offence, conspiracies to commit offen
Employment Act	Employment of aliens without permit
Drugs related	Possession, manufacture, trafficking etc of any quantity
Various cases	By-laws under the Llocal Government Act, Traffict Act, Tax Act etc



# **EMERGING ISSUES**

# **Environmental Economic Accounts: Energy** Accounts

# Chapter

### Overview

enya's economy relies largely on natural resources which supports a variety of economic sectors. However, there has been a challenge in establishing the actual contribution and value of these natural resources to the economy. In efforts to address this challenge, it was deemed necessary that energy accounts be piloted to understand the interactions between energy and the economy to inform policy decisions.

18.2. During the review period, the total net supply of Energy in the country was 995,658.06 Terajoules (TJ), out of which 97.6 per cent was domestically produced. Transmission and distribution losses of the total electricity produced was 6,975.16 TJ, accounting for 18.7 per cent of total electricity distributed in 2017. The volume of imports, mainly drawn from petroleum products was 27,705.49 TJ while total exports which include re-exports was 3,592.72 TJ in the review period. Total Consumption of Petroleum products was 22,069.43 TJ in 2017.

**Introduction** 18.3. The System of Environmental-Economic Accounting (SEEA) is an internationally agreed statistical framework to measure the environment and its interactions with the economy. It was adopted by the United Nations Statistical Commission (UNSC) in 2012 as the first international statistical standard for environmental-economic accounting. It forms part of broader measures aimed at complementing GDP in order to inform policy decisions. The SEEA Central Framework (SEEA-CF) is a multipurpose conceptual framework for understanding the interactions between the economy and the environment by describing physical flows and changes in stocks of environmental assets. Sustainable development requires formulation of right policies which are evidence based. To achieve sustainable development, there is need for analysis of impacts of economic policies on the environment and how environmental assets contribute to the economic production.

> 18.4. The framework utilizes accounting concepts, structures, rules and principles of the 2008 System of National Accounts (SNA, 2008). However, unlike SNA, SEEA-CF allows for integration of environmental information measured in physical terms with economic information measured in monetary terms into a single framework in addition to expanding the asset boundary defined in SNA. The SEEA-CF covers measurement in three main areas namely; physical flows of materials and energy within the economy and between the economy and the environment, stocks of environmental assets and changes in these stocks; and economic activity and transactions related to the environment.

> 18.5. These measurements are done through a series of accounts: *Physical flow accounts* comprising of Physical Supply and Use Tables (PSUT) for Energy and Water; and physical flow accounts for materials, including emissions to air and water. Environmental asset accounts which entail accounting for changes in stocks of mineral and energy resources and other environmental assets such as land, soil, timber, aquatic resources and other biological resources. Environmental activity accounts include environmental activity statistics such as Environmental Protection Expenditure Accounts (EPEA) and Environmental Goods and Services Sector (EGSS); and accounting for other environmental transactions, i.e. environmental subsidies and taxes.

### Rationale

18.6. In 2013, the United Nations published guidelines on integrated economic statistics outlining the need to move from the traditional silo approach to a more integrated approach to produce statistics. Integrated economic statistics provide a consistent and coherent picture of the economic activities for policy, business and other analytical uses. In the recent past, several initiatives on sustainability, social progress and well-being have raised the need for integrated and coherent official statistics. This has in turn created demand for integrated and coherent official statistics necessitating statistics agencies to generate integrated economic, environmental and socio-demographic statistics. SEEA is used to measure natural capital, environment, biodiversity and sustainable development related initiatives.

**Objectives** 18.7. The main objective of environmental-economic accounting is to measure the interactions between the economic processes and the environmental resources. The specific objectives are to identify the socio-economic drivers, pressures, impacts and responses affecting the environment; to provide indicators that express the relationship between the environment and the economy; to support accurate and precise environmental regulations and resource management policies; environmental sustainability and social equity; and to provide quantitative basis for policy design formulation.

Implementation 18.8. Kenya was among four countries selected by United Nations Statistics Division (UNSD) of SEEA in to develop and strengthen environmental economic accounting. The other countries were Kenya Uganda, Malaysia and Indonesia. The aim of the project was to develop a national plan for implementation of SEEA framework and compile a pilot account for a policy relevant area. Kenya and Uganda agreed to develop national plans to guide compilation of environmental economic accounts and compile a pilot account.

> 18.9. Consultative meetings with stakeholders were held to create awareness about SEEA and its applications as well as to explore the availability of the required data. There was a general consensus to pilot energy accounts on the basis of their importance in the country's economy and on the availability and ease of collecting data.

# **Tables**

# Supply and Use Monetary Supply and Use Table

18.10. Monetary supply and use table consists of two parts namely; supply table and use table. The table records flows of products in monetary terms relating to the use of inputs from the environment or expenditure associated with the environment. The supply table includes: output from production within the domestic economy and imports (products brought from the rest of the world). All products supplied to the economy must be recorded as used to account for all resources derived from the environment. The use table includes intermediate consumption (products used to produce other products); household final consumption (products consumed by households); government final consumption expenditure (products consumed by government); exports (products sold to the rest of the world); gross fixed capital formation (products used as assets) and inventories. The flows are classified by type of product, type of economic unit and accumulation. Total supply of each product must be equal to total use of the same product.

Box1: Monetary Supply and Use Table

Supply Table	Industries	Households	Government	Accumulation	Rest of the n World	Total
Product	Output				Imports	Total Supply
<b>Use Table</b> Product	Intermediate Consumption	Household final consumption expenditure	Government final consumption expenditure	Gross capital formation <sup>1</sup>	Exports	Total Use
	Value added <sup>2</sup>					

<sup>&</sup>lt;sup>1</sup>Gross capital formation is gross fixed capital formation plus changes in inventories

# Physical Supply and Use Table

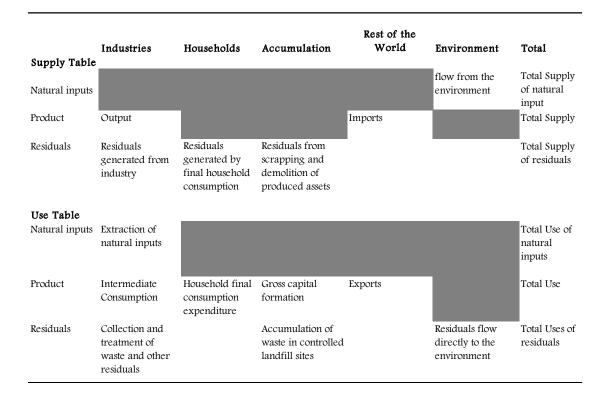
18.11. The Physical Supply and Use Table (PSUT) records all flows of products and natural inputs from the environment to the economy, residuals from the economy to the environment and within the economy, in physical terms. The structure of the physical supply and use table is the same as that of monetary supply and use table with an extension to include flows from and to the environment. The column for government is omitted in the PSUT since it is included in the industries column.

18.12. The households in the PSUT involve the consumption of goods. Households undertake several activities for own consumption including collection of water and firewood. All the activities recorded as consumption in the household should be recorded as produced from the environment. Production activities and associated flows of natural inputs are recorded in the industries. Residues are generated as a by-product of consumption by economic units.

18.13. The input output identity states that total flows to the economy over an accounting period are either returned to the environment or accumulated. Physical flows are measured in different units depending on the material. Industries are classified using the International Standard Industrial Classification of all economic activities (ISIC Rev.4) while products are classified using the Central Product Classification (CPC V.2).

<sup>&</sup>lt;sup>2</sup>Value added is computed by netting intermediate consumption from the value of output

Box2: Structure of Physical Supply and Use Table



- Energy 18.14. The energy physical supply and use table is an accounting construct for compiling Physical and presenting all energy entering, leaving and used within the national economy of a given Supply and country for a period of time. It expresses energy flows in a common unit called Terajoules and Use Table shows the relationship between inputs to and outputs from energy transformation processes. The physical supply and use table for energy aims to be comprehensive and records all energy flows within the economy and the environment.
  - 18.15. Physical flows of energy are organized according to whether they represent supply or use of energy. Energy is supplied when it is produced (either when extracted directly from the environment for example the capture of energy using solar panels); or created from another source (transformation of wind to electricity) or imported, for example petroleum products.
  - 18.16. An energy PSUT is used to assess how an economy supplies and uses energy and can also be used to examine changes in production and consumption patterns over time. Energy PSUT when combined with data from Monetary Supply and Use Tables can be used to examine changes in productivity and intensity in the use of energy natural inputs and the release of residuals.
  - 18.17. The supply and use identity applies within the PSUT for energy. Thus, for each product measured in physical terms, the quantity of domestic production (output) and imports (total supply of products) must equal the consumption (both intermediate and final), changes in inventories and exports (total use of products). The equality between supply and use also applies to the total supply and use of natural inputs and the total supply and use of residuals.

# **Energy Balance**

18.18. The 2017 Energy Balance for the country is presented in Tables 18.1a, 18.1b and 18.1c. All Energy supplied and used is measured in Terajoules. Total net supply of Energy in the country was 995,658.06 TJ in 2017. Domestically produced energy accounted for 97.6 per cent of total supply at 971,545.29 TJ in the review period, mainly drawn from firewood, charcoal and electricity generation sources. Firewood, charcoal and other waste production contributed 96.3 per cent of all energy produced locally in 2017. The volume of imports, mainly drawn from petroleum products, stood at 27,705.49 TJ in the review period while total exports which includes re-exports was 3,592.72 TJ. Total Consumption of Petroleum products was 22,069.43 TJ in 2017.

18.19. All electricity produced was used by the various customer categories except 6,975.16 TJ reported as transmission and distribution loss, accounting for 18.7 per cent of total electricity distributed in 2017. Total Energy transformation by the Kenya Electricity Generating Company (KENGEN) was 26,575.15 TJ, contributing 72.9 per cent of total energy transformed over the same period. Energy transformed by Independent Power Producers was 9,736.22 TJ while 158.04 TJ of energy was transformed by Off-grid electricity plants in the review period.

18.20. In 2017, electricity consumption was 30,276.52 TJ. Consumption by Domestic and Small Commercial; and Large and Medium Commercial consumers was 27,818.13 TJ accounting for 91.9 per cent of total electricity demand.

ble 18.1a: Supply and Demand for Coal, Coke and Non-Renewable Feedstocks, 2017

Tera Joules (TJ)

					ra Joules (TJ)
			Non-re ne wa l	ole feeds tocks	
Energy Products					
CPC Definition	Coaland	Wood	Fuel wood, in	Wastes or	Sub-Total
	Coke	cha rcoa l	logs, in billets,	s cra ps	
			in twigs, in		
			faggots or in		
			s imila r forms		
CPC Code	110	34510	0313	391	
Domestic Production	-	62,286.33	847,588.5	25,201.07	935,075.89
Imports	19.38				-
Domestic Exports					-
Re-Exports					-
S tock changes					-
Sub-total: Supply	19.38	62,286.33	847,588.49	25,201.07	935,075.89
		,	,		-
S ta tis tica l diffe rence s	19.38	-	1,146.64	-	1,146.64
			,		-
Sub-total: Demand	-	62,286.33	846,441.85	25,201.07	933,929.25
					-
Sub-total: Energy transformation	-	-	-	-	-
Electricity plants (Kengen)					-
Electricity plants (Independent Power Producers (IPPs))					-
Electricity plants (Emergency Power Producers (EPPs))					-
Electricity plants (Off-grid))					-
Oil refineries	-	-	-	-	-
Charcoal manufacturing /burning					-
Firewood					-
Other transformation					-
Energy indus try own us e					-
					-
Sub-total: Energy demand	-	62,286.33	846,441.85	25,201.07	933,929.25
Electricity:					-
Domestic and Small Commercial-IC					-
Large and Medium Commercial-IC					-
S treet Lighting-F					-
Offpeak					-
Rural ele ctrification-F					-
Industry:					-
Agriculture					-
Mining & Quarying					-
Ma nufa c turing			122,550.00		122,550.00
Electricity, Gas, Steam and Air Conditioning Supply					-
Construction					-
Road Transport					-
Rail Trans port					-
Air Transport					-
Other Transport					-
Accommodation and Food Service Activities					-
Other Commercial Sectors					-
Public Adminis tration and Defense					-
Hous e holds		62,286.33	723,891.85	25,201.07	811,379.25
1 Terajoule (TT)=10^12 Joules					

1 Terajoule (TJ)=10^12 Joules

1000 Tonnes = 4.184 TJ

1GWh=3.6 TJ

Table 18.1b: Supply and Demand for Electricity, 2017

							To	era Joules (TJ)
Energy Products				e ne ratio n				Electricity energy
CPC Definition	Hydro	Geothermal	Solar	Wind	Thermal	Co- Generation	Total Power Generation	dis tributio n
CPC Code	171	171	171	171	171	171		171
Domestic Production	9,996.56	17,122.75	1.09	219.55	9,122.70	6.73	36,469.40	36,469.40
Imports		,			,		,	826.42
Domestic Exports								44.14
Re-Exports								
S tock changes								
Sub-total: Supply	9,996.56	17,122.75	1.09	219.55	9,122.70	6.73	36,469.40	37,251.68
	7,7,7,0,0			217.00	,,===		04,147.114	07,202100
S ta tis tical differences		-	-	(0.01)		-	(0.01)	6,975.16
5 ta us uca i unic i cince s	-	_		(0.01)			(0.01)	0,773.10
Sub-total: Demand	9,996.56	17,122.75	1.09	219.56	9,122.70	6,73		30,276.52
Jub-total. Demanu	7,770.30	1/,122./3	1.07	217.30	7,122.70	0.73		30,270.32
Sub-total: Energy transformation	9,996.56	17,122.75	1.09	219.56	9,122.70	6.73	36,469.41	-
Electricity plants (Kengen)	9,924.84	12,994.02	-	219.55	3,436.73		26,575.15	-
Electricity plants (Independent Power Producers (IPPs))	71.72	4,128.73	-	- 219.33	5,529.03		9,736.22	
Electricity plants (Emergency Power Producers (EPPs))	/1./2	4,120./3	-	-	3,329.03	0./3	9,/30.22	
Electricity plants (Efferial))  Electricity plants (Off-grid))	-	-	1.09	0.01	156.94		158.04	
Oil refine ries		-	1.07	0.01	- 130.94		130.04	_
Charcoal manufacturing /burning			-					•
Fire wood								
Other transformation								
Energy industry own use								
Energy muusuy own use								
Sub-total: Energy demand	_					_		30,276.52
Electricity:								30,270.32
Domestic and Small Commercial-IC								12,701.82
Large and Medium Commercial-IC								15,116.30
S treet Lighting-F								151.87
Off peak								216.28
Rural electrification-F								2,090.24
Industry:								2,070.21
Agriculture								
Mining & Qua rying								
Ma nufa cturing								
Electricity, Gas, Steam and Air Conditioning Supply								
Construction								
Road Transport								
Rail Transport								
Air Transport								
Other Transport								
Accommodation and Food Service Activities								
Other Commercial Sectors								
Public Administration and Defense								
Hous e holds								

<sup>1</sup> Terajoule (TJ)=10^12 Joules

1000 Tonnes = 4.184 TJ

1GWh=3.6 TJ

Energy Products							Refinery products	roducts								
10						Liquid fuels	fuels							Gas		
CPC Definition	Motor Spirit (Pre mium and Regular)	Aviation gasoline	Je t fuel	Muminating Ke rose ne	White spirit I and special C boiling point industrial spirits	Light Die sel	, io	Other Gas Dis n.e.c n	Fueloik O. C. C	Lubricating Oils	Greases	Other Oils	Liquifie d Pe trole um Gas (L.P.G)	Petroleum gases and other gaseous hydrocarbons , except natural gas	Sub-Total	Totall
CPC Code	33311	33312	33342	33349	33350	33360	33360		33370	33380	33380	33390	334			
Domestic Production																971,545.29
Imports	6,946.8	12.5	5,776.1	146.0	13.2	9,894.4	4.8	2.8	2,887.5	7.4	10.4	327.3	830.4	0.0	26,859.69	27,705.49
Domestic Exports	0.0		3.7	2.2	4.0	4.5	0.0	0.0	12.1	108.2	0.3	2.2	4.2	0.0	137.91	182.04
Re-Exports	2.4	1.1	3,182.7	1.5	0.1	56.2	0.0	2.0	128.4	1.0	0.1	21.6	13.5		3,410.67	3,410.67
S tock changes																
Sub-total: Supply	6,944	11	2,590	142	13	9,834	\$	1	2,747	(102)	10	304	813	0	23,311.11	995,658.06
8.7	0177	3					( 9	I.	. 0	(0 000)		0.000	(0 110)			
Statistical differences	1,641.8	(4.6)	(128.7)	(1,732.2)	12.7	1,105.1	(0.4)	0.7	550.5	(297.9)	10.1	302.0	(217.2)	0.0	1,241.68	9,382.85
Sub-total: Demand	5,302.6	16.0	2,718.4	1,874.6		8,728.6	5.2		2,196.5	196.0		1.5	1,029.9		22,069.43	1,022,744.61
Sub-total: Energy transformation																36,469.41
Electricity plants (Kengen)																26,575.15
Electricity plants (Independent Power Producers (IP Ps))																9,736.22
Electricity plants (Emergency Power Producers (EPPs))																
Electricity plants (Off-grid))																158.04
Oilrefineries																
Charco al ma nufa cturing Journing																
Fire wood																
Othe r trans formation																
Energy indus try own use																
Sub-total: Energy demand	5,302.6	16.0	2,718.4	1,874.6		8,728.6	5.2		2,196.5	196.0		1.5	1,029.9	•	22,069.43	986,275.20
Electricity:															•	
Domestic and Small Commercial-IC						1	1	1							•	12,701.82
Large and Medium Commercial - C						1	†	$\dagger$	1							15,116.30
Street Lighung-F					1		1									151.87
Dum lalachiffor ton II								T								2,000 0
In dustry:																
Agriculture	15.8			4.0		232.1			104.9	11.2			2.4		370.35	370.35
Mining & Quarying	1.0			0.2		102.6			64.2	3.9			0.7		172.58	172.58
Ma nufa cturing	31.8	0.8	,	12.2		1,020.9	0.2		1,039.9	35.2			64.3		2,205.23	124,755.23
Ele ctricity, Gas, Steam and Air Conditioning Supply				177.6		3.5	2.9		52.4	25.7		1.5	14.1		277.78	277.78
Construction	5.6			71.1		422.6			1.4	10.9					\$11.61	511.61
Trans port and s torage	5,185.8	15.2	2,708.9	20.3		6,025.4			10.9	70.3			10.7		14,047.57	14,047.57
Accommodation and Food Service Activities	0.2			6.2		25.9			0.4	0.7			20.0		53.52	53.52
Other Commercial Sectors	43.9	•	•	109.0		754.2	2.0		920.2	30.8			55.6		1,915.57	1,915.57
Public Administration and Defense	18.5		9.5	0.0		141.4			2.3	7.4			3.6		182.75	182.75
House holds				1,474.0									858.5		2,332.47	813,711.71
1Total column is a summation of Tables 17.1(a), 17.1(b) and 17.1(c)																

### **Economic Survey 2018**

Energy 18.22. Physical flows of energy are presented in Tables 18.2a and 18.2b. Total Energy Supply Physical was 1,936,459.06 TJ out of which, 937,221.51 TJ was extracted from the environment while Supply and 27,692.25 TJ was imported. The Agriculture industry transformed 908,728.18 TJ to energy Use Table products, mainly from firewood while Electricity, Gas, Steam and Air Conditioning industry (**PSUT**) transformed 36,469.41 TJ to energy products in 2017.

> 18.23. Total electricity consumption (excluding losses) was 30,320.66 TJ while total petroleum consumption stood at 26,859.69 TJ during the review period. Electricity sales to households and agriculture sectors recorded a share of 34.6 per cent and 8.4 per cent to total electricity use, respectively in 2017.

Table 18.2a: Pilot Physical Supply Table for Energy, 2017

				1.09	219.55	9,996.56	17,122.75	6.73	909,874.82		21 223 96	61.6/6,04	9,736.22		158.04		62,286.33	846,441.85	•		826.42	19.38	6,946.82	12.47	5,7,0.12	146.02			9,894.41	4.77	2.76	2,887.51	7.38	10.43	327.31	830.45		1,146.64			25,201.07	1.936.459.06
		Total																																						Ц		L
·	Hows from / to the	environment		1.09	219.55	9,996.56	17,122.75	6.73	909,874.82																																	937,221,51
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# Highlights of 2015/16 Basic Report on Well-Being in Kenya

Chapter

### Introduction

 $\P$  his chapter presents highlights of the poverty situation in Kenya based on the 2015/16 Kenya Integrated Household Budget Survey (2015/16 KIHBS). The 2015/16 KIHBS provides data on a wide range of indicators to assess the progress made in improving the living standards of the population as well as provide the basis of resource allocation at national and county levels. Previously, the Kenya National Bureau of Statistics (formerly Central Bureau of Statistics) conducted the first KIHBS in 2005/06.

19.2. Household Budget Surveys (HBS) are the best sources of data for measurement of money metric poverty and inequality. Earlier, a series of Welfare Monitoring Surveys (WMS,) were conducted in 1992, 1994 and 1997. Besides WMSs, the Rural Household Budget Survey (RHBS) was conducted in 1981/82 while the Urban Household Budget Surveys (UHBSs) were conducted in 1983/84 and 1993/94.

Survey 19.3. The 2015/16 KIHBS was conducted from September 2015 to August 2016 to generate Objectives data towards meeting multiple statistical production objectives and provide benchmark indicators to; inform the development of the third Medium Term Plan (MTP III) and monitor Kenya's progress towards achieving the Sustainable Development Goals (SDGs).

> 19.4. Specifically, the survey objectives were to: update the poverty and inequality indicators at national and county levels; provide monetary, non-monetary and multi-dimensional indicators and socio-economic profiles of living standards; update labour force indicators; update consumption basket to produce new Consumer Price Index (CPI) series, and provide data to update the household sector input-output structure of the System of National Accounts (SNA).

Survey 19.5. The 2015/16 KIHBS was designed to provide estimates for various socio-economic Methodology indicators at national, rural/urban and county levels. The survey sample was drawn from the fifth National Sample Survey and Evaluation Programme (NASSEP V). A total of 2,400 clusters were selected proportionally from both rural and urban areas in the first stage and 10 households from each of the clusters in the second stage, culminating in a total sample of 24,000 households.

> 19.6. The survey utilized a set of seven questionnaires (three main, two diaries, one market prices and one community). The questionnaires were used to collect the required data from the respondents through face to face interviews. The data capture for the survey was done alongside data collection.

Poverty 19.7. The measure of welfare used in the 2015/16 KIHBS was based on consumption **Measurement** expenditures rather than income. In the survey, household consumption expenditure refers **Approach** to the value of goods and services acquired for final consumption plus those received in kind and consumed by the household. Consumption includes all goods and services that were acquired or purchased for use by households, but excludes those used for business purposes or accumulation of wealth.

19.8. This is in line with the previous welfare reports for Kenya (GoK, 1997, 2000 and 2007) and international best practices. The measure of nominal household total consumption expenditure, an aggregate measure consisting of expenditures on food and non-food consumption, was computed following guidelines provided by Deaton and Zaidi (2002).

19.9. The 2015/16 KIHBS collected information on food and non-food consumption. The food consumption component included four sub-components; purchases, own production, stocks, and gifts on food items, with a recall period of seven days. The non-food consumption by households was collected in separate sections of the survey questionnaire with recall periods of one month, three months or one year, depending on the frequency of acquiring the item.

19.10. The household final consumption expenditure aggregate excluded the lumpy health expenditures (except regular purchases over the counter medication), user value of consumable durables, and infrequent expenses such as legal fees and expenses, home repair and improvements, as well as expenditure on; social ceremonies, marriages, births, funerals, and rent in rural areas.

**Adjusting** 19.11. The aim of poverty measurements is to obtain a measure of an individual's wellbeing for in order to make welfare comparison across households with different sizes and demographic Differences composition. The households' composition have different consumption needs based on in Needs their demographic characteristics. These needs are taken into account when making welfare comparison across households. The aggregate consumption therefore, needed to be adjusted to make it comparable across households. Equivalence scales were used to convert household consumption aggregates into money metric measures of an individual's welfare. To adjust for intra-household differences in needs, the equivalence scales developed by Anzagi and Bernard (1977a, 1977b) were used. These adult equivalence scales weigh an individual; aged 0-4 years as 0.24 of an adult, aged 5-14 as 0.65 of an adult and older than 14 years as an adult.

**Computing** 19.12. The poverty lines were derived from the 2015/16 KIHBS data using the Cost-of-Basic **Poverty** Needs (CBN) method. The food poverty line was estimated as the cost, in monetary terms, Lines of consuming 2,250 kilocalories per day per adult equivalent. Using this approach, the food poverty lines per adult equivalent per month were computed as KSh 1,954 for rural areas and KSh 2,551 for urban areas, respectively. The overall (absolute) poverty lines per adult per month were computed as KSh 3,252 for rural areas and KSh 5,995 for urban areas.

# Adjusting for Spatial and Seasonal Price Variation

19.13. The respondents in 2015/16 KIHBS paid different prices for comparable goods during the survey period. Due to both temporal and spatial variations, it was necessary to construct an index that would simultaneously adjust the final consumption aggregate for differences in the cost of living. A Paasche price index referenced to national median prices in urban and rural areas was developed to adjust each household's nominal consumption aggregate. The median prices used for referencing the price index were identical to those used for computing and valuing the rural and urban food basket and poverty lines.

# **Poverty Estimates**

19.14. Food Poverty refers to households and individuals whose monthly adult equivalent food consumption expenditure per person is less than KSh 1,954 in rural and peri-urban areas, and less than KSh 2,551 in core-urban areas.

19.15. Overall Poverty refers to households and individuals whose monthly adult equivalent total consumption expenditure per person is less than KSh 3,252 in rural and peri-urban areas, and less than KSh 5,995 in core-urban areas.

19.16. Hardcore or Extreme Poverty refers to households and individuals whose monthly adult equivalent total food and non-food consumption expenditure per person is less than KSh 1,954 in rural and peri-urban areas, and less than KSh 2,551 in core-urban areas.

# **Expenditure** patterns

19.17. The mean monthly expenditure patterns on food and non-food items by residence and county are presented in Table 19.1. The mean monthly expenditure at national level stood at KSh 7,811, with KSh 4,239 spent on food and KSh 3,572 on non-food. The total mean expenditure per adult equivalent on both food and non-food in core-urban households was on average more than double that of households in rural areas. Households in rural areas spent more than 60 per cent of their income on food which is higher than the 48.8 per cent spent on food by households in core-urban areas.

19.18. The mean monthly food expenditure per adult equivalent share accounted for 54.3 per cent of household consumption expenditure at the national level. The analysis by counties shows that households in Turkana had the highest mean monthly expenditure per adult equivalent share on food at 76.2 per cent while Nairobi City registered the lowest share of 43.0 per cent. The highest average monthly total expenditure was KSh 14,311 in Nairobi City County and the least was KSh 3,461 in Mandera County.

19.19. In addition, results by counties indicate that food expenditure accounted for a higher share of the overall average monthly total expenditure per adult equivalent in; Wajir (71.0%), Siaya (68.9%) and Samburu (67.8%) counties. On the other hand, the least share of average monthly total expenditure on food was recorded in Kiambu (47.6%), Kajiado (49.0%) and Mombasa (49.8%) counties. Further analysis shows that Mombasa, Kiambu and Machakos counties recorded relatively high average monthly total expenditure of KSh 10,970, KSh 9,594 and KSh 8,455, respectively. However, Wajir, West Pokot and Busia counties recorded the least average monthly total expenditure of KSh 3,784, KSh 3,914 and KSh 3,924, respectively.

Table~19.1: Mean~Monthly~Food~and~Non-Food~Expenditure~per~Adult~Equivalent, 2015/16

Residence / County	Mea	ın Expenditu	re (KSh)	Percenta	ge share
Residence / County	Food	Non-food	Total	Food N	Vonfood
National	4,239	3,572	7,811	54.3	45.7
				4. =	
Rural	3,447	1,879	5,326	64.7	35.3
Peri-urban	3,792	2,749	6,540	58.0	42.0
Core urban	5,550	6,349	11,900	46.6	53.4
Mombasa	5,459	5,510	10,970	49.8	50.2
Kwale	3,924	2,546	6,470	60.6	39.4
Kilifi	4,081	3,828	7,908	51.6	48.4
Tana River	2,935	2,017	4,952	59.3	40.7
Lamu	5,006	2,719	7,725	64.8	35.2
Taita / Taveta	4,023	2,893	6,917	58.2	41.8
Garissa	2,954	1,668	4,622	63.9	36.1
Wajir	2,686	1,097	3,784	71.0	29.0
Mandera	2,287	1,173	3,461	66.1	33.9
Marsabit	2,983	1,510	4,493	66.4	33.6
Isiolo	3,592	2,661	6,252	57.5	42.6
Meru	4,612	2,616	7,228	63.8	36.2
Tharaka - Nithi	4,382	2,861	,	60.5	39.5
Embu	′	*	7,243		
	4,148	2,859	7,007	59.2	40.8
Kitui	3,424	2,054	5,478	62.5	37.5
Machakos	4,403	4,053	8,455	52.1	47.9
Makueni	3,620	2,453	6,073	59.6	40.4
Nyandarua	4,254	2,439	6,694	63.5	36.4
Nyeri	5,402	3,818	9,220	58.6	41.4
Kirinyaga	4,359	3,010	7,369	59.2	40.8
Murang'a	3,690	2,705	6,394	57.7	42.3
Kiambu	4,567	5,027	9,594	47.6	52.4
Turkana	3,704	1,158	4,862	76.2	23.8
West Pokot	2,552	1,362	3,914	65.2	34.8
Samburu	3,037	1,440	4,477	67.8	32.2
Trans Nzoia	3,543	2,942	6,485	54.6	45.4
Uasin Gishu	3,778	3,252	7,030	53.7	46.3
Elgeyo / Marakwet	3,108	1,800	4,909	63.3	36.7
Nandi	3,215	2,069	5,284	60.8	39.2
Baringo	3,938	2,773	6,712	58.7	41.3
Laikipia	3,960	2,287	6,247	63.4	36.6
Nakuru	4,765	3,869	8,634	55.2	44.8
Narok	4,559	3,706	8,265	55.2	44.8
Kajiado	4,122	4,285	8,407	49.0	51.0
Kericho	3,342	2,260	5,602	59.7	40.3
Bomet	3,179	1,443	4,622	68.8	31.2
Kakamega	3,311	1,961	5,272	62.8	37.2
Vihiga	2,951	1,686	4,637	63.6	36.4
Bungoma	3,619	2,222	5,841	62.0	38.0
Busia	2,617	1,307	3,924	66.7	33.3
	4,106		5,959	68.9	
Siaya		1,853	· ·		31.1
Kisumu	4,435	3,238	7,673 5,677	57.8	42.2
Homa Bay	3,724	1,954	5,677	65.6	34.4
Migori	3,239	1,833	5,072	63.9	36.1
Kisii	3,336	2,043	5,378	62.0	38.0
Nyamira	3,402	2,379	5,781	58.8	41.2
Nairobi City	6,153	8,158	14,311	43.0	57.0

Food, Overall 19.20. Table 19.2 shows the headcount poverty rates and population of the poor at national and Hardcore level and by area of residence. The food poverty headcount rate at national level in 2015/16 (Extreme) was 32.0 per cent of the population (14.5 million individuals). These individuals were unable Poverty at to consume the minimum daily calorific requirement of 2,250 Kilocalories (Kcal) as per National expenditures on food. The highest food poverty incidence was in rural areas, where 35.8 per Level cent of the population were below the food poverty line compared to 28.9 per cent in periurban areas and 24.4 per cent in core-urban. The results further show that 23.8 per cent of households were food poor in 2015/16.

> 19.21. The overall poverty headcount rate for individuals at the national level was 36.1 per cent in 2015/16, implying that 16.4 million individuals lived in overall poverty. The highest overall poverty incidence was in rural areas, where 40.1 per cent of the residents were considered as overall poor compared to 27.5 per cent in peri-urban and 29.4 per cent in core-urban areas. Further analysis indicates that 27.4 per cent of households lived in overall poverty.

> 19.22. At the national level, the hardcore poverty headcount rate for individuals was 8.6 per cent in 2015/16. This implies that 3.9 million people lived in conditions of abject poverty and were unable to afford the minimum required food consumption basket. Rural areas recorded the highest incidence of extreme poverty of 11.2 per cent (3.2 million individuals). Figure 19.1 presents information on headcount poverty measures; food poverty, overall poverty and extreme poverty.

> 19.23. Table 19.3 summarizes food, overall and hardcore poverty measures for individuals by residence and county. The findings are further illustrated in Figure 19.2, ranking overall poverty incidence estimates at the county level in ascending order.

Table 19.2: Summary of Headcount Poverty Measures, 2015/16

		Poor Individuals P <sub>a=0</sub>		Poor Hou	seholds P <sub>a=0</sub>	Poor People (Adult equivalent-Adulteq) P <sub>a=0</sub>		
	Headcount		Number of		Number of	Number of		
	Poverty	% of	% of people in		householdsin	% of	Adulteq in	
Residence	Measures	Population	thousands	Households	thousands	Adulteq	thousands	
	Food Poverty	32.0	14,539	23.8	2,718	31.9	11,594	
National	Overall Poverty	36.1	16,401	27.4	3,126	35.3	12,847	
	Hardcore Poverty	8.6	3,908	6.0	682	8.3	3,037	
	Food Poverty	35.8	10,419	28.1	1,808	35.7	8,213	
Rural	Overall Poverty	40.1	11,687	32.6	2,097	39.5	9,086	
	Hardcore Poverty	11.2	3,273	8.7	560	11.0	2,530	
	Food Poverty	28.9	965	21.5	173	29.1	789	
Peri-Urban	Overall Poverty	27.5	920	21.1	166	27.3	768	
	Hardcore Poverty	6.0	199	4.6	37	6.0	163	
'	Food Poverty	24.4	3,155	17.7	736	24.3	2,592	
Core-Urban	Overall Poverty	29.4	3,795	20.6	880	28.3	2,915	
	Hardcore Poverty	3.4	436	2.0	85	3.2	343	

Figure 19.1: Headcount Poverty Measures by Area of Residence, 2015/16

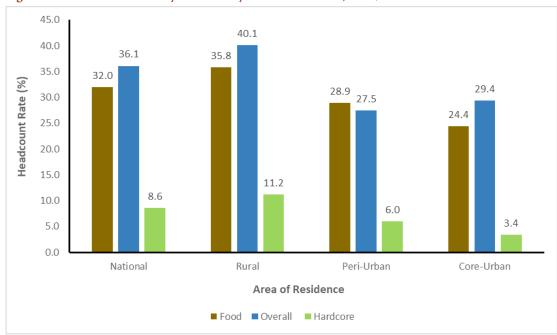


Table 19.3: Food, Overall and Hardcore Poverty Estimates (Individual) by Residence and County, 2015/16

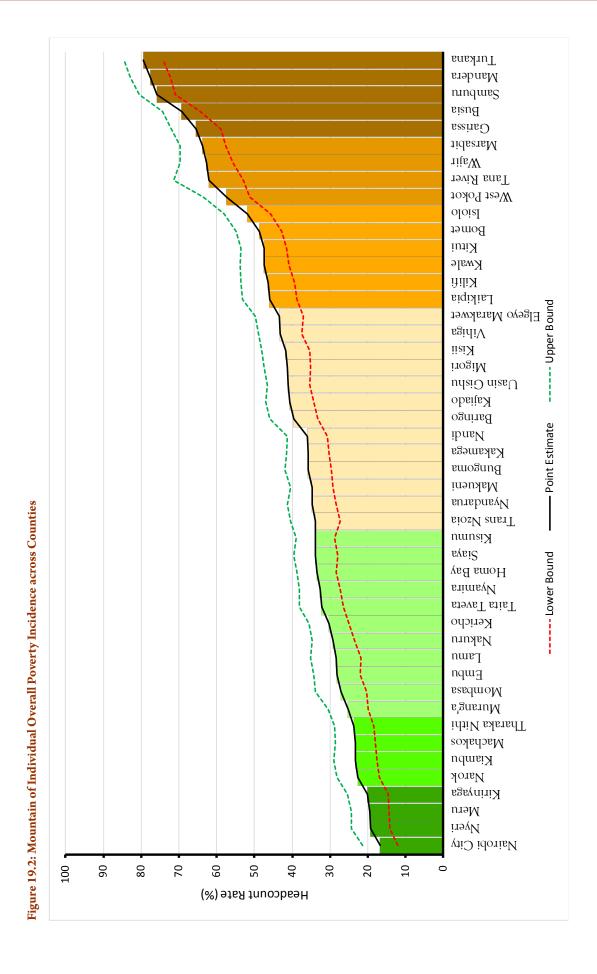
Residence/	Foodpo	verty	Overall P	overty	Hardcore p		
County	Food	Poverty	Overall	Poverty	Hardcore	Poverty	Population
	poverty (%)	<b>Gap</b> (%)	Poverty (%)	<b>Gap</b> (%)	poverty (%)	<b>Gap</b> (%)	('000)
National	32.0	9.2	36.1	10.4	8.6	2.2	45,371
Rural	35.8	10.3	40.1	11.5	11.2	2.9	29,127
Peri-Urban	28.9	7.4	27.5	6.9	6.0	1.2	3,340
Core-Urban	24.4	7.2	29.4	8.9	3.4	0.8	12,905
Mombasa	23.6	7.2	27.1	7.5	2.2	0.8	1,185
Kwale	41.1	10.4	47.4	11.1	5.9	0.7	820
Kilifi	48.4	12.6	46.4	12.3	7.0	1.9	1,400
Tana River	55.4	18.2	62.2	20.0	17.9	5.3	304
Lamu	19.9	4.8	28.5	5.5	3.2	0.8	128
Taita / Taveta	38.9	9.0	32.3	7.7	5.3	1.0	358
Garissa	45.2	14.4	65.5	24.1	23.8	6.7	432
Wajir	41.3	11.8	62.6	16.3	10.5	3.3	459
Man dera	61.9	26.4	77.6	32.8	38.9	11.0	711
Marsabit	55.6	17.9	63.7	23.4	23.8	6.3	316
Isiolo	34.2	9.2	51.9	15.5	8.9	2.0	156
Meru	15.5	3.8	19.4	4.9	2.8	0.5	1,471
Tharaka-Nithi	31.2	7.1	23.6	3.8	1.8	0.2	396
Embu	28.3	6.9	28.2	6.4	4.0	1.1	560
Kitui	39.4	12.5	47.5	13.4	12.8	2.7	1,098
Machakos	24.1	6.8	23.3	5.7	3.5	0.7	1,191
Makueni	30.7	9.1	34.8	8.8	6.6	1.1	959
Nyandarua	29.8	5.9	34.8	7.2	3.4	0.5	686
Nyeri	15.5	3.0	19.3	2.4	0.2	0.0	798
Kirinyaga	18.8	3.0	20.0	3.5	0.9	0.2	608
Murang'a	22.7	5.7	25.3	6.0	5.2	0.8	1,085
Kiambu Turkana	23.5	5.9	23.3	6.6	3.1	0.4	1,868
West Pokot	66.1 57.3	32.9 20.4	79.4 57.4	46.0 20.1	52.7 26.2	24.3 6.0	1,084 649
Samburu	60.1	22.7	75.8	32.1	42.2	11.7	284
Trans Nzoia	33.3	9.9	34.0	10.4	9.7	2.2	1,038
Uasin Gishu	38.2	11.7	41.0	12.9	12.1	2.8	1,133
Elgeyo / Marakwet	44.8	10.8	43.4	13.4	12.1	2.8	469
Nandi	31.5	8.3	36.0	9.4	8.0	1.2	954
Baringo	41.4	10.8	39.6	9.7	8.5	2.6	704
Laikipia	28.5	9.2	45.9	14.9	15.0	4.4	507
Nakuru	19.6	4.8	29.1	7.8	3.7	0.4	2,031
Narok	22.1	6.7	22.6	6.0	5.5	1.2	1,078
Kajiado	36.9	12.3	40.7	13.1	11.4	2.5	871
Kericho	31.4	7.3	30.3	8.1	7.3	1.7	945
Bomet	32.8	5.6	48.8	9.3	6.1	0.7	916
Kakamega	33.3	8.3	35.8	9.5	6.9	1.9	1,876
Vihiga	36.6	9.5	43.2	11.5	8.2	1.7	627
Bungoma	32.4	9.5	35.7	9.5	8.8	1.7	1,553
Busia	59.5	17.5	69.3	22.3	26.8	4.3	840
Siaya	27.3	7.2	33.8	8.7	6.1	1.5	985
Kisumu	32.5	8.3	33.9	8.7	6.0	1.2	1,132
Homa Bay	22.7	6.0	33.5	8.4	5.9	1.2	1,072
Migori	32.0	7.9	41.2	8.0	3.6	0.6	1,126
Kisii	44.5	11.6	41.7	10.8	7.5	1.2	1,347
Nyamira	36.3	10.1	32.7	9.1	7.6	1.5	699
Nairobi City	16.1	3.9	16.7	3.4	0.6	0.0	4,463

19.24. Meru and Nyeri counties registered the least food poverty incidence at 15.5 per cent each while Turkana county recorded the highest incidence of 66.1 per cent. Other counties that recorded higher food poverty incidence were; Mandera (61.9%), Samburu (60.1%), Busia (59.5%), West Pokot (57.3%), Marsabit (55.6%) and Tana River (55.4%).

19.25. The results show significant variation in overall poverty incidence at the county level, ranging from a low of 16.7 per cent in Nairobi City to a high of 79.4 per cent in Turkana. Similarly, Mandera (77.6%), Samburu (75.8%), Busia (69.3%) and Garissa (65.5%) counties recorded higher poverty incidence. On the contrary, Nyeri (19.3%), Meru (19.4%), Kirinyaga (20.0%) and Narok (22.6%) counties recorded lower overall poverty incidence.

19.26. The hardcore poverty incidence at the county level ranges from a low of 0.2 per cent in Nyeri to a high of 52.7 per cent in Turkana. Likewise, Samburu (42.2%), Mandera (38.9%), Busia (26.8%), West Pokot (26.3%) and Marsabit (23.8%) counties recorded higher extreme poverty incidence. More than one third (37.5%) of the total population living in conditions of extreme poverty reside in these six counties. Concentration of extreme poor populations are also found in Kajiado, Kitui and Uasin Gishu counties.

19.27. Figure 19.2 shows the mountain of poverty where counties are ranked by their incidence of overall poverty from the lowest to the highest. The lower plains of the mountain start in Nairobi City at 16.7 per cent, through Narok (22.1%) and Murang'a (22.7%) counties. Between the lowest point at Nairobi City County (16.7%) to the peak at Turkana County (79.4%), the mid-point points lies between Bungoma and Kakamega counties. The ascent from the mid-point rises gently to Bomet County (48.8%) while the ascent towards the top is steep.



Poverty 19.28. Table 19.4 presents poverty measures cross-tabulated by selected characteristics of the by Socio- household. The results show that poverty increases with an increase in household size. At the Economic national level, households with between one to three members recorded the least poverty Characteristics headcount of 14.7 per cent compared to the 54.1 per cent (more than half) for households of the Head of with seven or more members. This pattern is similar in all the domains of analysis (rural, perithe Household urban and urban). Household with children (33.7%) have a higher probability of being poor compared to those without children (13.5%).

Table 19.4: Poverty Headcount Rates (%) and Socio-economic Indicators at Household Level, 2015/16

Socio-Economic Indicator	Rural	Urban	Peri-Urban	National
Presence of a Child in the Household				
Household without children	18.2	10.1	12.0	13.5
Household with children	36.8	29.2	24.7	33.7
Household Size (Household members)				
1-3	18.3	11.9	11.1	14.7
4-6	34.4	30.9	23.7	32.5
7+	54.6	58.2	41.9	54.1
Age of Household Head (Years)				
15-19	25.8	32.2	9.3	27.5
20-29	20.9	13.4	8.4	15.9
30-39	29.8	22.3	18.8	25.8
40-49	36.7	22.0	21.1	30.8
50-59	34.4	24.7	24.7	31.1
60-69	36.6	31.6	32.3	35.4
70+	37.3	40.8	32.9	37.3

19.29. The analysis of poverty by age of the household head reveals that poverty rate increases as the age of the household head increases, except for households headed by persons in 20-29 age-group. Households headed by older persons (70+ years) recorded a higher poverty rate (37.3%) than those headed by younger population (20-29 years), who registered the lowest poverty incidence (15.9%).

19.30. Figure 19.3 shows that households headed by females are likely to be poorer than those headed by males. Nationally, poverty rates were highest in households headed by individuals without any form of formal education (53.6%) and lowest in those headed by individuals with tertiary education (4.6%), as shown in Figure 19.4. The trend is the same for rural, urban and peri-urban areas.

Figure 19.3: Overall Poverty by Sex of Household Head, 2015/16

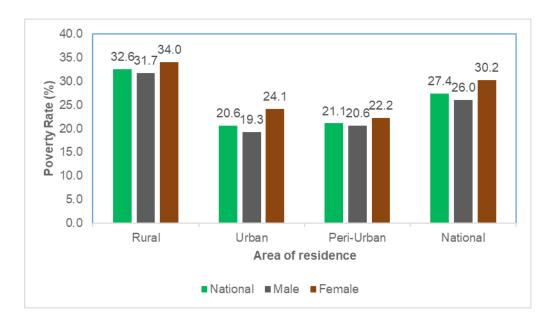
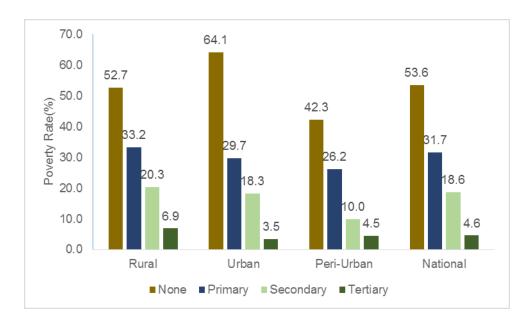


Figure 19.4: Overall Poverty by Education Level of Household Head, 2015/16



## Highlights of the KIHBS 2015/16 Labour **Force Basic Report**

Chapter

Overview

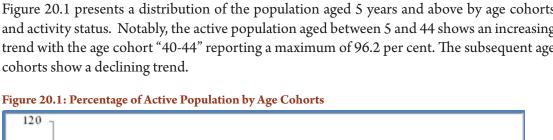
**Active** 

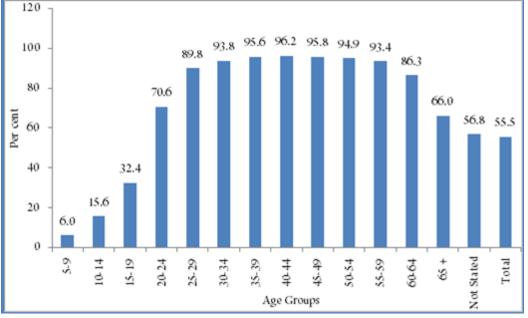
opulation

This chapter presents a summary of the labour force basic report which was compiled using data collected in the 2015/16 Kenya Integrated Household Budget Survey (KIHBS). The survey covered the whole country, and was mainly analysed at the national, urban and rural levels. Results presented here are mainly for the economically productive population aged 15-64 years. The activity status of the population was determined with respect to a 7 days' reference period.

20.2. In the 2015/16 KIHBS, the recorded number of persons aged 15-64 was estimated at 25.0 million. This number had increased from 19.9 million recorded in 2005/06 KIHBS and the 20.5 million enumerated during the 2009 Kenya Population and Housing Census (KPHC). Out of these 25.0 million, 19.3 million were found to be in the labour force (either employed or unemployed) where the total employed were 17.9 million. A person was considered to be employed if during the reference period (7 days preceding the survey) he/she was engaged in an economic activity for at least one hour.

20.3. Analysis of the 2015/16 KIHBS revealed that out of all Kenyans aged five years and above, 55.5 per cent were economically active (employed, unemployed or looking for work). Figure 20.1 presents a distribution of the population aged 5 years and above by age cohorts and activity status. Notably, the active population aged between 5 and 44 shows an increasing trend with the age cohort "40-44" reporting a maximum of 96.2 per cent. The subsequent age





**Total** pendency Ratio

20.4. The total dependency ratio measures the burden which the productive part of the population shoulders to support the economically dependent. It is a ratio of the "dependents" to the "productives" and is calculated by adding the young population aged (0-14) years to the aged population (65+) years, and then dividing the sum by the working age population (15-64) years. An increase in the indicator impacts negatively on financial and social welfare of the

En to I people. However, this indicator has the limitations that some persons classified as "dependent" could be producers while others characterised as "productive" could be economically dependent. As summarized in Table 20.1, total dependency ratio in the country decreased to 81.6 per cent in 2015/16 KIHBS from 86.9 per cent recorded in the 2009 KPHC. This implies that on average, 82 persons aged below 15 years and above 64 years, depended on 100 persons of the working age population (15 - 64 years) in 2015/16 KIHBS. Over the same period, total dependency ratio in the rural areas decreased from 100.4 to 96.7 per cent. In the urban areas, total dependency ratio decreased from 62.7 per cent in 2009 KPHC to 59.7 per cent in 2015/16 KIHBS.

Table 20.1: Total Dependency Ratio by Residence and by Region

			Age	Total Population Total '000 Dependency				
	0-14	65+	<15 and 65+	15-64	Not Stated	2015/16 KIHBS	2009 KPHC	2015/16 KIHBS <sup>2</sup>
Kenya	18,636.5	1,737.7	20,374.2	24,955.5	41.4	45,371.1	86.9	81.6
Rural	12,934.9	1,377.0	14,311.9	14,796.1	18.6	29,126.6	100.4	96.7
Urban	5,701.6	360.7	6,062.3	10,159.5	22.8	16,244.6	62.7	59.7
Region <sup>1</sup>								
Coast	1,694.4	125.7	1,820.1	2,358.0	17.0	4,195.1	83.9	77.2
North Eastern	867.3	50.4	917.7	683.4	0.8	1,601.9	116.5	134.3
Eastern	2,343.8	326.1	2,669.9	3,474.4	2.0	6,146.3	87.7	76.8
Central	1,704.3	301.3	2,005.6	3,032.0	8.2	5,045.8	69.8	66.1
Rift valley	5,583.3	424.4	6,007.7	6,648.9	4.9	12,661.5	93.5	90.4
Western	2,222.3	216.0	2,438.3	2,457.6	-	4,895.9	103.9	99.2
Nyanza	2,818.7	245.2	3,063.9	3,295.0	2.4	6,361.3	98.5	93.0
Nairobi	1,402.4	48.5	1,450.9	3,006.2	6.1	4,463.2	46.1	48.3

<sup>&</sup>lt;sup>1</sup> Region is used for comparison purposes with 2009 KPHC results.

20.5. This indicator is used to evaluate the ability of the economy to create jobs. A high ratio implies that a large proportion of the population in the working age is employed, which generally has positive effects to the Gross Domestic Product (GDP) per capita. Table 20.2 shows the distribution of the employment to population ratio by age and by residence. The overall employment to population ratio in the country increased to 71.6 per cent in 2015/16 KIHBS, from 69.3 per cent in the 2009 KPHC. The ratio of persons aged 15-24 years who were employed had declined between 2009 KPHC and 2015/16 KIHBS. This indicates higher school retentions and could be attributed to the various reforms undertaken within the education sector that have improved school enrolment and retention, thereby increasing the economically inactive in these age cohorts. On the other hand, the ratio for all other age categories had increased within the same period. The highest increase in the ratio was recorded in the "55-59" age cohort mainly attributable to extension of the retirement age from 55 to 60 years. The employment to population ratio in rural areas increased to 73.2 per cent in 2015/16 KIHBS from 70.7 per cent in 2009 KPHC. Similarly, the ratio in the urban areas increased to 69.4 per cent in 2016 from 66.8 per cent in 2009 KPHC. Overall, employments to population ratios in the rural areas were found to be higher than those in the urban areas across all age cohorts.

ployment Population Ratio

<sup>&</sup>lt;sup>2</sup> The Not Stated are excluded from the computation of Total Dependency Ratio.

Table 20.2: Distribution of Working Age Population (15 - 64) by Employment, 2009 KPHC and 2015/16 KIHBS

Age Group	Population '000	Employed '000	Employment Ratio 2015/16 KIHBS	Employment Ratio 2009 KPHC
Kenya				
15-19	5,015.8	1,384.1	27.6	35.1
20-24	4,069.4	2,321.6	57.1	63.5
25-29	3,666.8	2,997.2	81.7	78.0
30-34	3,062.7	2,741.8	89.5	82.7
35-39	2,503.1	2,305.0	92.1	84.6
40-44	2,006.4	1,878.1	93.6	85.3
45-49	1,475.9	1,388.4	94.1	85.9
50-54	1,241.5	1,160.3	93.5	83.8
55-59	1,094.1	1,002.6	91.6	81.5
60-64	819.7	696.7	85.0	77.9
Total	24,955.5	17,875.7	71.6	69.3
Rural				
15-19	3,491.3	1,105.9	31.7	38.7
20-24	2,120.2	1,330.3	62.7	67.7
25-29	1,807.1	1,517.7	84.0	80.2
30-34	1,570.5	1,446.2	92.1	83.5
35-39	1,435.5	1,340.2	93.4	84.9
40-44	1,235.9	1,169.6	94.6	85.3
45-49	925.3	876.6	94.7	86.1
50-54	807.4	761.0	94.3	84.5
55-59	782.7	729.0	93.1	83.2
60-64	620.1	549.5	88.6	80.2
Total	14,796.1	10,826.0	73.2	70.7
Urban				
15-19	1,524.5	278.2	18.2	26.0
20-24	1,949.2	991.3	50.9	57.4
25-29	1,859.7	1,479.5	79.6	75.2
30-34	1,492.2	1,295.5	86.8	81.6
35-39	1,067.6	964.8	90.4	84.1
40-44	770.5	708.4	91.9	85.1
45-49	550.6	511.8	93.0	85.4
50-54	434.1	399.3	92.0	81.9
55-59	311.5	273.5	87.8	76.4
60-64	199.6	147.2	73.7	69.9
Total	10,159.5	7,049.6	69.4	66.8

Att

oour Force rticipation Rate 20.6. The labour force participation rate is a measure of the proportion of a country's working age population that engages actively in the labour market either by working or looking for work. It provides an indication of the size of the supply of labour available to engage in the production of goods and services, relative to the population and working age. The labour force participation rate is calculated by expressing the number of persons in the labour force (employed, unemployed or looking for work) as a percentage of the working age population. As shown in Figure 20.2, the overall labour force participation rate was 77.4 per cent. The highest participation rate was in the age cohort "40-44" at 96.2 per cent while the lowest was in the age cohort "15-19" at 32.4 per cent. Analysis by sex shows that male participation rates were higher than those of female.

120.0 93.8 95.6 962 95.8 94.9 93.4 100.0 86.3 792 75.6 77.4 80.0 70.6 60.0 40.0 32.4 20.0 0.0Female \*O\*\*

Figure 20.2: Labour Force Participation Rates for Population (15-64) by Sex

ducational ainment – hest Level Completed

20.7. The skill level of the workforce is an important aspect of the labour market performance and competitiveness. Information on education attainment is therefore important in determining the employability of the workers. Figure 20.3 presents a comparison between the active and inactive population in terms of the highest level of education reached. The proportions of the active and inactive population for those who had attained primary level of education were almost the same. Of those who had attained university level of education, 26.2 per cent reported to be inactive.

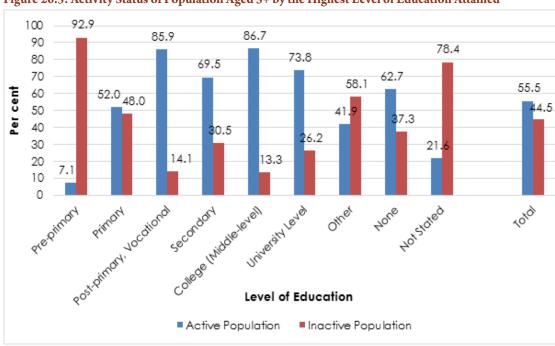


Figure 20.3: Activity Status of Population Aged 5+ by the Highest Level of Education Attained

**Hours** worked 20.8. Data on hours of work are important in distinguishing the various intensities of employment. More so, the information is useful in monitoring the working conditions which impact on the health and wellbeing of workers as well as levels of productivity and labour costs. Most persons aged 15-64 years worked between "40-48" hours in a week as shown in Table 20.3. Those aged 15-19 years reported the highest proportion (30.8 per cent) working for less than 15 hours in the last 7 days mainly due to schooling activities.

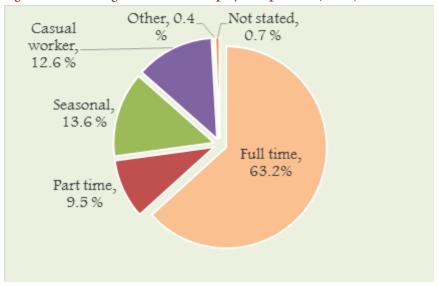
Table 20.3: Percentage Distribution of Population (15-64) by Hours Worked

			Hours										
Age	Total (N) ('000')	Less than 15	15-24	67-57	30-34	35-39	40-48	49-58	88-69	84-99	Above 99	Not Stated	Total
15-19	1,384.1	30.8	21.1	3.7	7.7	6.3	11.7	5.6	9.0	3.2	0.6	0.4	100
20-24	2,321.6	8.5	12.7	3.2	9.0	7.7	24.9	9.1	17.3	6.2	1.1	0.5	100
25-29	2,997.2	4.1	10.1	2.6	7.2	7.0	29.6	10.9	21.2	5.9	1.3	0.3	100
30-34	2,741.8	4.1	8.2	2.4	6.7	8.0	31.5	11.3	20.8	5.7	1.3	0.2	100
35-39	2,305.0	3.2	9.7	2.2	7.8	8.1	29.8	10.8	20.0	6.9	1.3	0.2	100
40-44	1,878.1	3.1	8.4	2.0	7.9	8.3	30.8	10.8	22.2	5.0	1.4	0.1	100
45-49	1,388.4	3.8	10.1	2.5	7.7	9.5	27.8	11.1	20.4	5.7	1.3	0.1	100
50-54	1,160.3	3.2	10.3	1.8	8.7	8.2	30.5	12.7	17.7	5.2	1.6	0.3	100
55-59	1,002.6	4.7	14.0	3.3	9.8	11.8	28.3	8.9	13.2	4.2	1.4	0.5	100
60-64	696.7	7.4	17.0	3.4	11.6	10.9	25.1	9.3	11.6	3.1	0.7	0.1	100
Total	17,875.7	6.6	11.3	2.6	8.0	8.2	27.7	10.2	18.5	5.5	1.2	0.3	100

Working **Patterns** 

20.9. As shown in Figure 20.4, the proportion of persons who worked for all hours and for all working days, as defined by the employer, except when on leave or otherwise officially away was 63.2 per cent. The survey also revealed that the proportion of persons engaged in seasonal activities such as coffee picking, planting, tourism was 13.6 per cent. Casual employees i.e. persons whose terms of engagements provide for payment at the end of each day and who are not engaged for a period longer than 90 days accounted for 12.6 per cent. Further, the number of employees who voluntarily worked for fewer hours than normal for the employer was 9.5 per cent.

Figure 20.4: Working Patterns of the employed Population (15-64)



20.10. Part time workers are the individuals who are permanent employees and work fewer hours than full time employees. During the survey, a person was considered a part time worker if he/she worked for less than 35 hours in a week. As displayed in Figure 20.5, based on a Tin

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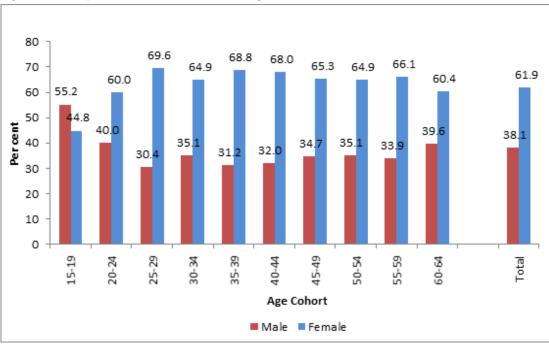
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Part Time Workers cut off of 35 hours per week, females accounted for 61.9 per cent of all part time workers. In absolute terms, across all age cohorts except "15-19", there were more female part time workers than males. The highest difference in the number of part time workers between the two sexes was in the age category "25-29".

Figure 20.5: Proportion of Part Time Workers Aged (15 - 64) by Sex



20.11. A person was classified as being Time-related Under-employed if one worked less than 28 hours a week, wanted to work additional hours, and was available to work additional hours if given an opportunity for more work. The indicator is used for assessing the extent to which available human resources are being utilised in the production process of a country. As shown in Figure 20.6, 20.4 per cent of the employed persons in the working age population were under-employed. This was a higher rate compared to 15.2 and 18.7 per cent in 2009 KPHC and 2005/06 KIHBS, respectively. Most of the underutilized were aged 15-19 followed by those aged 60-64. Under-employment was higher in the rural areas at 26.6 per cent compared to the urban areas at 11.0 per cent.

Figure 20.6: Time related Under-employment Rate by Age Group and by Residence.



ne-Related Undernployment 20.12. The "strict" definition (never worked for at least one hour, available to pick up a job

and actively looking for work during the reference period) was used to compile the number of unemployed. As depicted in Figure 20.7, overall unemployment rate was 7.4 per cent, down from 9.7 per cent in 2009 KPHC and 12.7 per cent recorded in 2005/06 KIHBS. The largest unemployment rate was recorded in the age cohort "20-24" at 19.2 per cent.

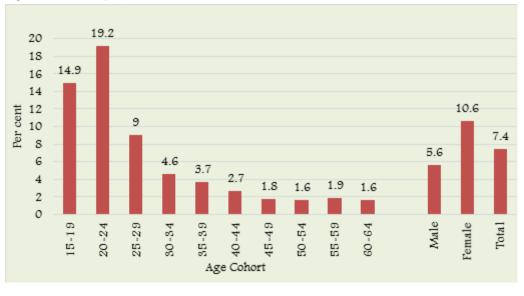


Figure 20.7: Unemployment Rate - Labour Underutilisation (LU1)

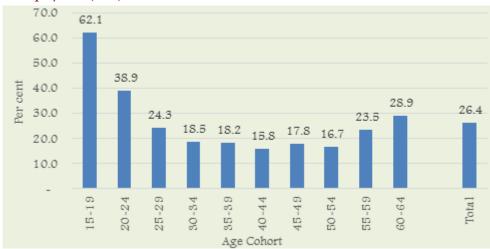
Labour utilization 20.13. Labour underutilisation refers to the mismatch between supply and demand of labour. This gives an indication of the unmet need of employment among the population. Measures of underutilization identify groups among the employed and persons outside the labour force who share similarities with the unemployed. The focus is on issues of insufficient labour absorption. Labour underutilisation has three main components: Time-related Underemployed which focuses on the employed, but with insufficient working time and wanting and available to work more hours; Unemployed which as mentioned earlier focuses on the Not employed, but "currently available supply of labour" and seeking and available to work and; Potential labour force which is the Not employed population, but "potential supply of labour", seeking, but not available to work and Not seeking, but available and wanting to work. There are four sets of indicators, for under-utilisation which are recommended. One of the measures (LU2) is the combined rate of Time Related Under-Employment and Unemployment. This rate is computed as:

Labour Underutilisation (LU2) = 
$$\frac{\text{time related underemployed} + \text{unemployed}}{\text{labour force}} \times 100$$

Under

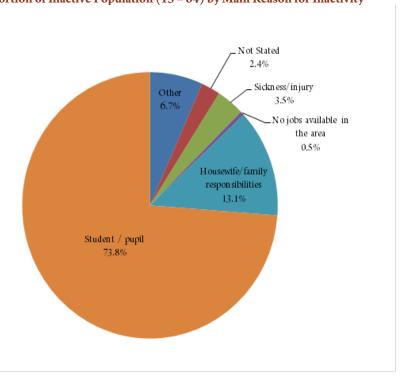
Labour utilization (LU2) 20.14. As shown in Figure 20.8, the total LU2 was 26.4 per cent with the highest rates of underutilization being observed in the age groups 15-29 and 55-64 years.

Figure 20.8: Under Utilization - Combined Rate of Time Related Under-Employment and Unemployment (LU2)



20.15. The economically inactive population comprise of all persons who were neither "employed" nor "unemployed" during the "last seven days" reference period. The number of economically inactive population as recorded during the 1999 KPHC was 2.9 million. This was estimated to have increased to 5.3 million during the 2005/06 KIHBS and further reduced to 4.7 million during the 2009 KPHC. In the 2015/16 KIHBS, the inactive population was estimated atn 5.6 million. Figure 20.9 presents the proportion of the incative population by the main reason of inactivity. The main two reasons of inactivity were school attendance and family responsibilities accounting for 73.8 and 13.1 per cent, respectively. Considering the prime age of "25-54", family responsibility and sickness/ injury were the two main reasons for inactivity.

Figure 20.9: Proportion of Inactive Population (15 - 64) by Main Reason for Inactivity



onomically Inactive Population 20.16. Table 20.4 presents a summary of some key indicators of the labour market of 2005/06 KIHBS, 2009 KPHC and 2015/16 KIHBS. Comparison of the labour participation rate, employment to population ratio and unemployment rate for the various period show improvement overtime. However, the indicator on time related underemployment of 2015/16 KIHBS reversed the trend which was previously improving.

Table 20.4: Key Indicators of the Labour Market

Indicator	2005/06	2009	2015/
Labour Force Participation Rate (per cent)	72.6	76.7	77.
Employment to Population Ratio	69.3	69.3	71.
Unemployment Rate (per cent)	12.7	9.7	7.
Underemployment Rate (per cent)	18.7	15.2	20.
Labour Under Utilisation			26.

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