

**FOOD SECURITY IN NIGERIA:
WHICH WAY FORWARD?**

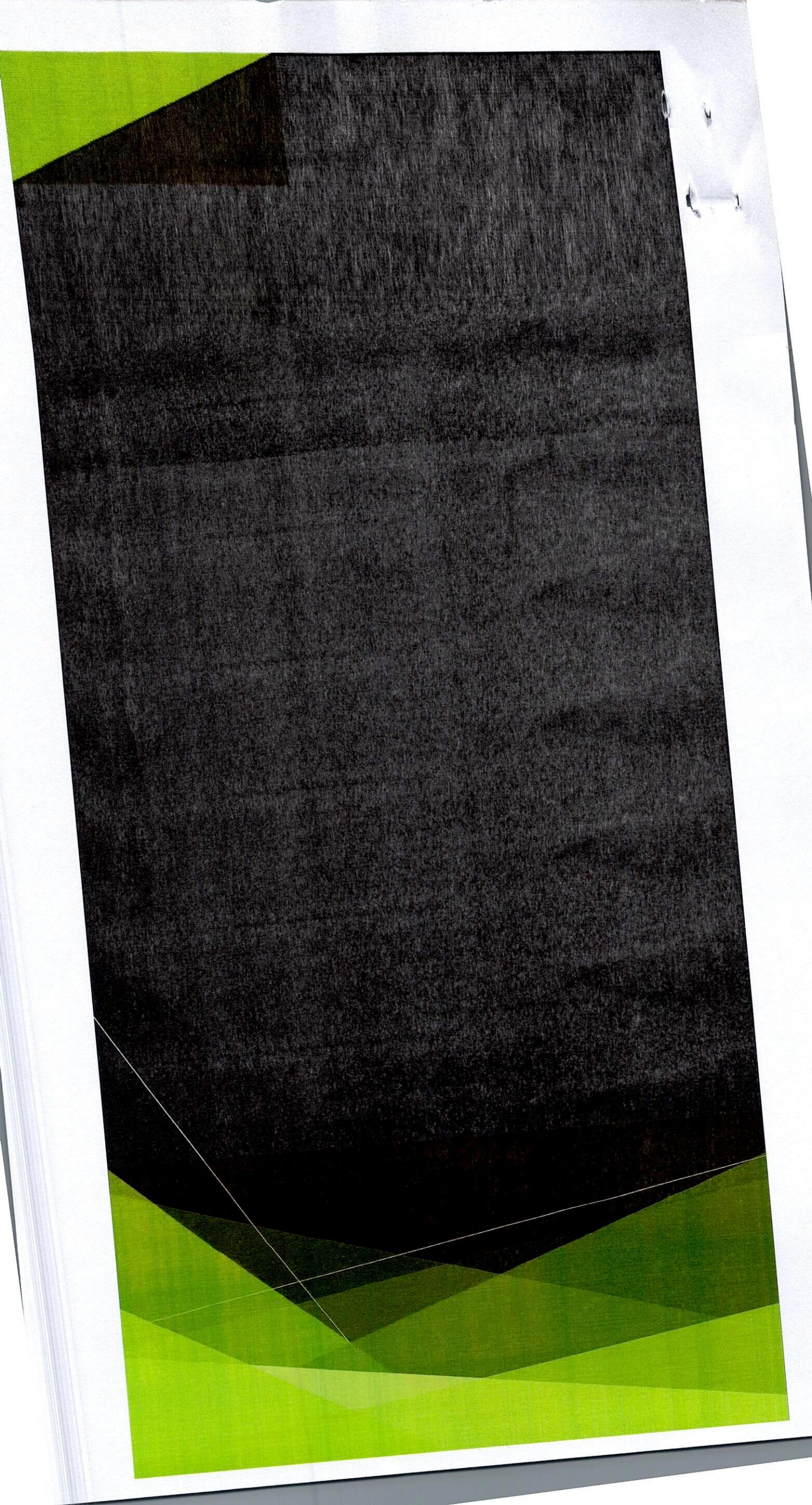
BY

**PROF. ABBA GAMBO, FHSN,
DEPARTMENT OF CROP PRODUCTION,
UNIVERSITY OF MAIDUGURI,**

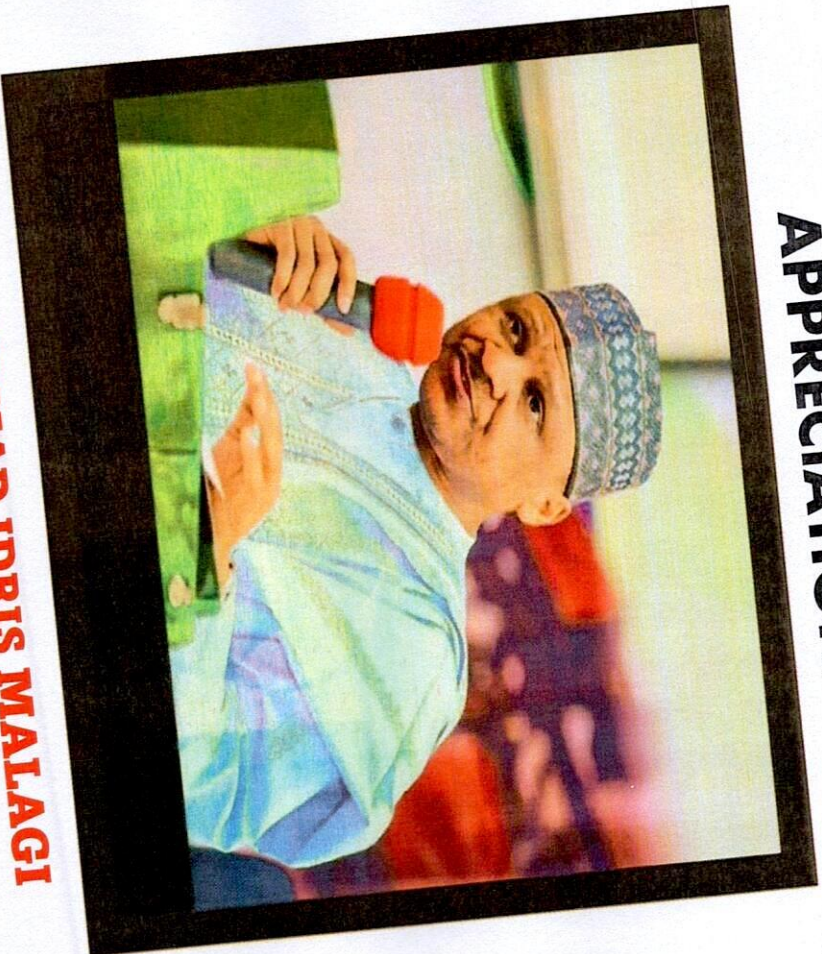
And

**AGRICULTURAL ADVISOR,
NIGERIA GOVERNOR'S FORUM.**

**GUEST LECTURE 2024 FRCN ANNUAL LECTURE SERIES
NICON LUXURY HOTEL, ABUJA
19TH DECEMBER 2024**



APPRECIATION



MOHAMMAD IDRIS MALAGI

**HONOURABLE MINISTER OF
INFORMATION AND NATIONAL ORIENTATION**

Intellect

Perseverance

Perseverance

And also eagerness

in Muslim regions

Forward

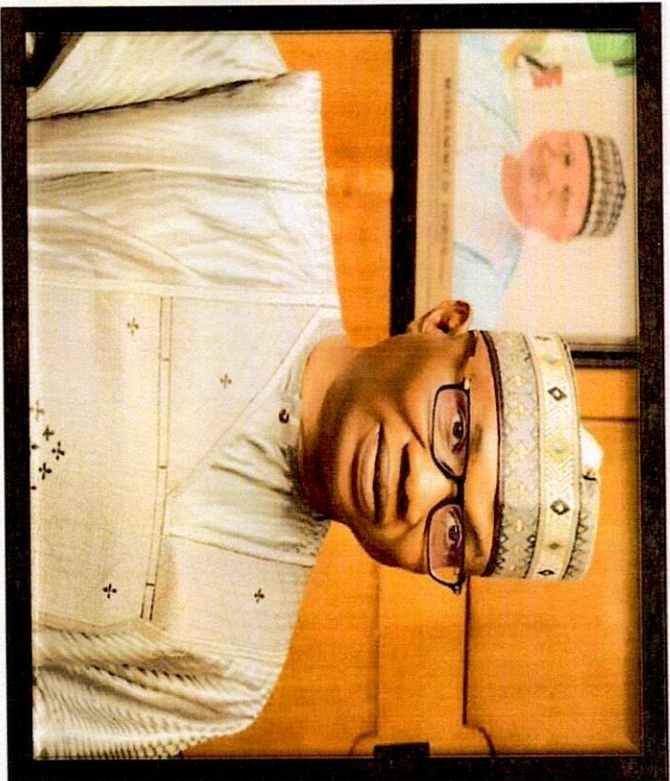
1 Forward by time

Spices humanity.

For one a sandalwood

in a sandalwood

DEDICATION

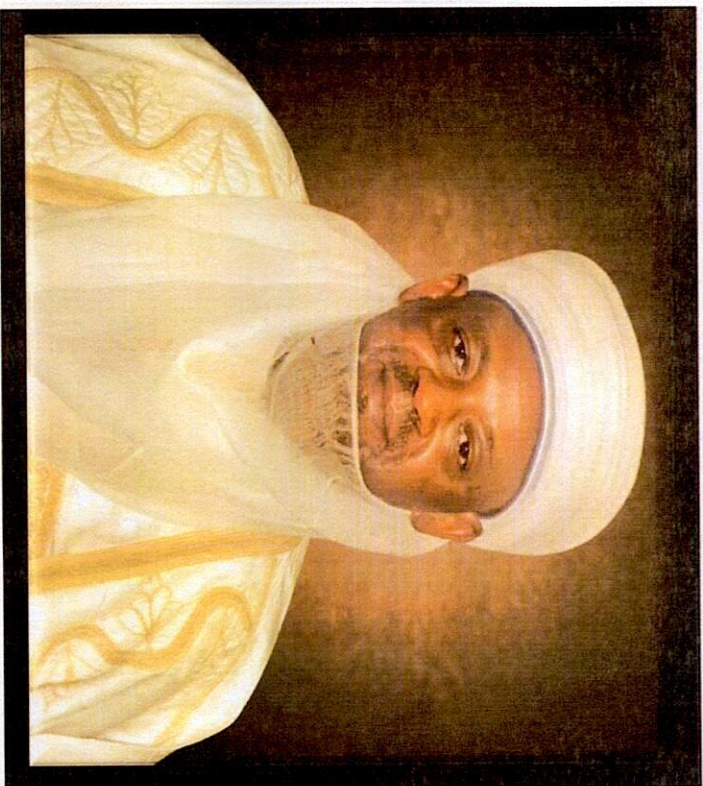


DR MOHAMMED B. BULAMA

DG/CEO

FEDERAL RADIO CORPORATION OF NIGERIA

GRATITUDE



HIS ROYAL HIGHNESS

ALHAJI DR. MUHAMMADU SAMBO HARUNA II

EMIR OF WASE, PLATEAU STATE

ACKNOWLEDGEMENT

1. **MSURSHIMA KIGHIR**
2. **YUNUSA ABDULLAHI TANKO**
3. **TERSOO ZAMBER**
4. **HAJIA FATIMA AUDU YUSUF**
5. **ADAMU MUHAMMED SAADU**

THE NIGERIAN SCENARIO

- **92.3m ha**
- **79.8m ha (Arable)**
- **33.4m ha (Actual Cultivation)**
- **3.14m ha (Fadama)**
- **400,000 ha (Actual)**
- **220 million people**
- **528 Ethnic groupings**
- **87% involved directly or indirectly in Agriculture**
- **14 million farming families (less than 10%)**

AGRO-ECOLOGY

- **Savanna**
 - Sahel
 - Sudan
 - Guinea
 - Derived Guinea
- **Rainforest**
 - Rainforest
 - Mangrove Swamp
- **Montane**
 - Mambilla
 - Jos
 - Obudu
- **Diversity**
 - All Major Groups
 - Livestock
 - Aquatics

FOOD SECURITY

- **Availability**
- **Affordability**
- **Balanced**
- **79% of the population live below \$2.00 per day**

QUESTION: Is Nigeria Secured Food-Wise?

PRESENT STATUS

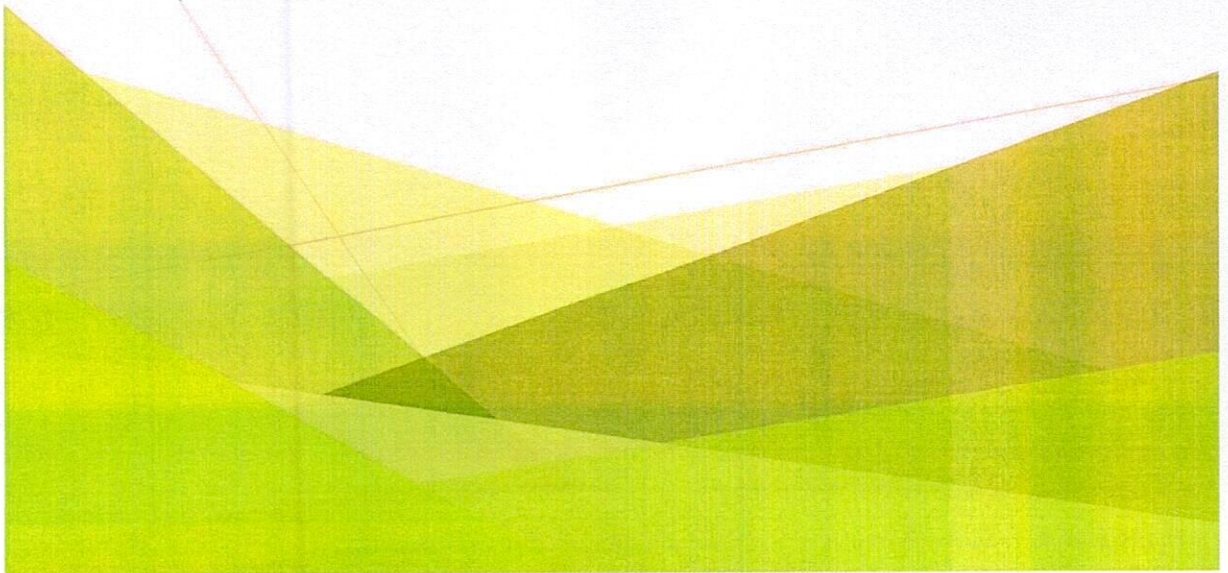
- **Rudimentary**
- **Almost Hereditary**
- **Small Hectarages**
- **No Modern Technology**
- **Fertilizer and other inputs (A mirage)**
- **Low input = Low output**
- **Harsh Environmental Vagaries**
- **Low Knowledge**
- **Poor Access to Credit**
- **Inadequate and Ineffective Extension**
- **Insecurity**

COMPARE PLEASE!!!

	Nigeria	Others
Rice	1.5 tons/ha	30 tons/ha (Thailand)
Cocoa	150 kg/ha	2000 kg/ha (Ivory Coast, Malaysia, Ghana, Brazil)
Maize	1.2 tons/ha	12 tons/ha (World average)
Groundnut	400 kg/ha	2700 kg/ha (Turkey, Spain, Egypt)
Tomatoes	5 tons/ha	100 tons/ha [Greenhouse Technology] (Spain, Jamaica)

COMPARE PLEASE!!!

	Nigeria	Others
Potatoes	6 tons/ha	60-80 tons/ha (USA, Irish Unit)
Onions	15 tons/ha	120 tons/ha (Yemen) Africa- (Niger 45tons/ha, Senegal 38tons/ha, Egypt 35tons/ha)
Fish	Peasant fishing	Modernized (Trawler Concept)
Cow	<ul style="list-style-type: none"> • Milk 150 litres/ lactation • Carcass 100 kg at 3 years 	10,000 litres (Exotic Fresien)
		1000 kg at 3 years (Exotic Semental)
	<ul style="list-style-type: none"> • Calving 2-3 years 	Annually



THE NORTH-EAST REGION

- **Highest Illiteracy rate**
- **Highest maternal mortality**
- **Highest child mortality**
- **Dearth of industries**
- **Lack of good road networks**
- **Lowest school enrolment**
- **Lowest per capita income**
- **Lack of processing plants**
- **Desertification**
- **Flooding**
- **Insurgency**
- **Contact with three countries**
- **Lake Chad**

THE SOUTH-WEST REGION

- **High per capita income**
- **Roots and tubers**
- **Fruits and vegetables**
- **Plantation crops**
- **High level of industrialization**
- **Aging farming population**

THE SOUTH-EAST REGION

- **High per capita income**
- **Lack of men on the farms**
- **Plantation crops**
- **Roots and tubers**
- **Fruits and vegetables**
- **Kidnappings**
- **Baby factories**

THE SOUTH-SOUTH REGION

- **Roots and tubers**
- **Massive water for aquaculture**
- **Rice**
- **Fruits and vegetables**
- **Militancy**
- **Limitation of farms**
- **Aging farming population (female based)**

THE NORTH-CENTRAL REGION

- **Excellent climatic conditions for agriculture**
- **Grains and cereals**
- **Roots and tubers**
- **Fruits and vegetables**
- **Aquaculture**
- **Youth restlessness**
- **Export based agriculture (ornamentals)**

THE NORTH-WEST REGION

- **Excellent climatic conditions**
- **Grains, cereals and legumes**
- **Pasture and rangeland (Huge livestock population)**
- **Fruits**
- **Cotton**
- **High irrigation potentials**
- **Industrialization**
- **Cold storage cargo port**
- **Cattle rustling**
- **Youth restlessness**

NIGERIAN FOOD INSECURITY

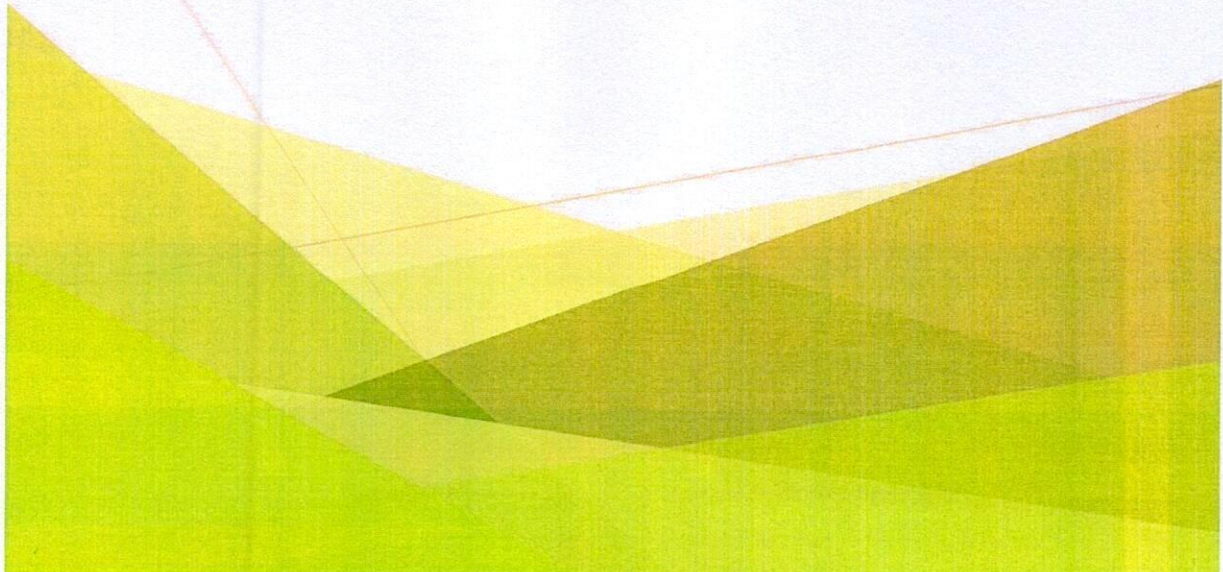
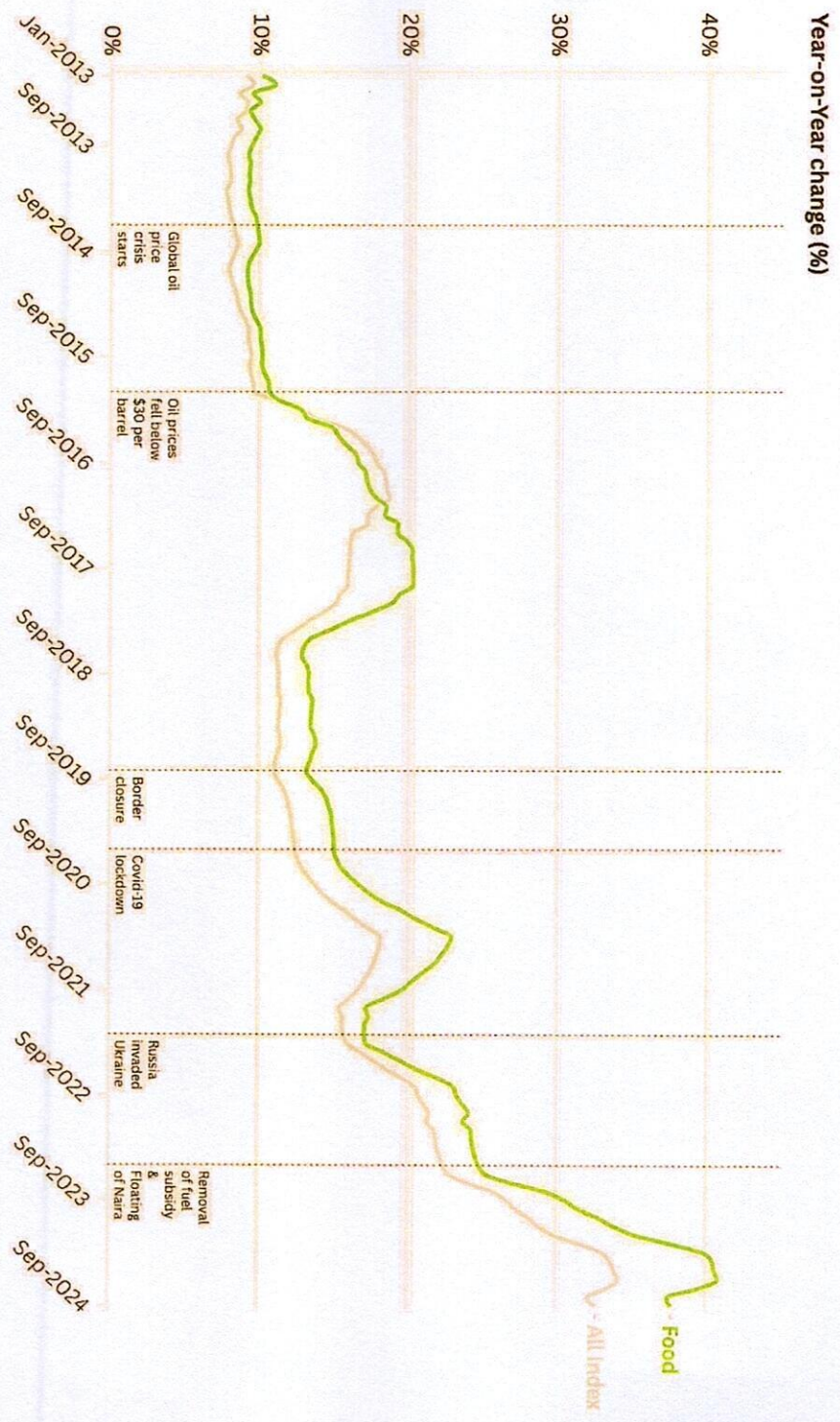
- **Covid-19**
- **Naira swap**
- **Removal of fuel subsidy**
- **Inconsistent governmental policies**
- **Farmer pastoralist clashes**
- **Aging population of farmers**

NIGERIAN FOOD INSECURITY cont.

- **Rural urban migration**
- **Population issue**
- **Poor access to credit**
- **Poor infrastructure**
- **Lack of Agro processing plants**
- **Poor capacity of farmers**

NIGERIAN FOOD INSECURITY cont.

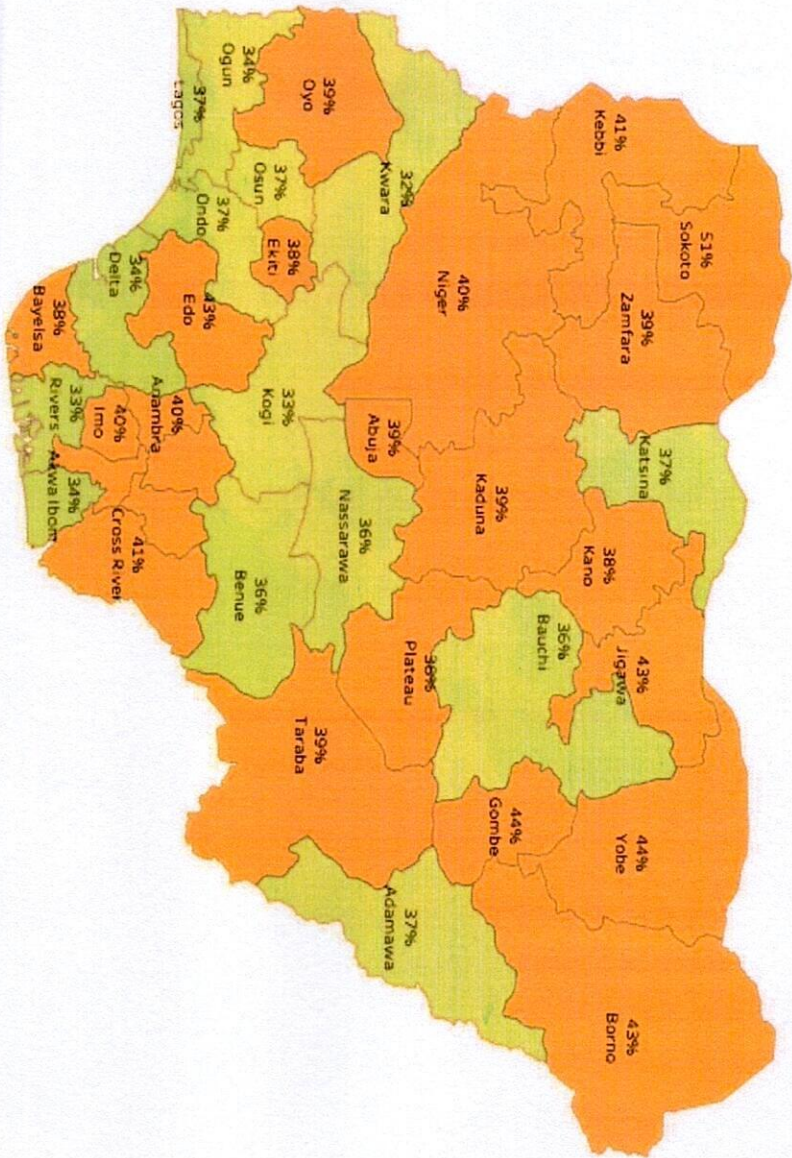
- **Low technology**
- **Poor extension services delivery**
- **Hoarding**
- **Land Tenure System**
- **Climate Change**
- **Post-Harvest technology**



© OpenStreetMap

Is food inflation greater than National Average?

- No
- True



Food Prices Soar: Over 100% Increase in Most Items in the Past Year

Search...

Food Item	Avg. Price (Sep 2023)	Avg. Price (Sep 2024)	Increase (x)	Percentage change (Y-o-Y)
Beans brown,sold loose	N717	N2,739	3.8x	282%
Beans:white black eye, sold loose	N691	N2,579	3.7x	273%
Broken Rice (Ofada)	N753	N2,359	3.1x	213%
Yam tuber	N593.83	N1,668.49	2.8x	181%
Plantain(unripe)	N544	N1,511	2.8x	178%
Tilapia fish (epiye) fresh	N1,501	N3,851	2.6x	157%
Plantain(tripe)	N586	N1,500	2.6x	156%
Tomato	N566	N1,431	2.5x	153%
Rice local sold loose	N757	N1,915	2.5x	153%
Gari white,sold loose	N468	N1,170	2.5x	150%
Gari yellow,sold loose	N496	N1,238	2.5x	150%
Chicken Wrngs	N1,631	N4,063	2.5x	149%
Chicken Feet	N1,309	N3,244	2.5x	148%
Rice Medium Grained	N807	N1,998	2.5x	148%
Rice agric sold loose	N798	N1,966	2.5x	146%

Source: Analysis of NBS data

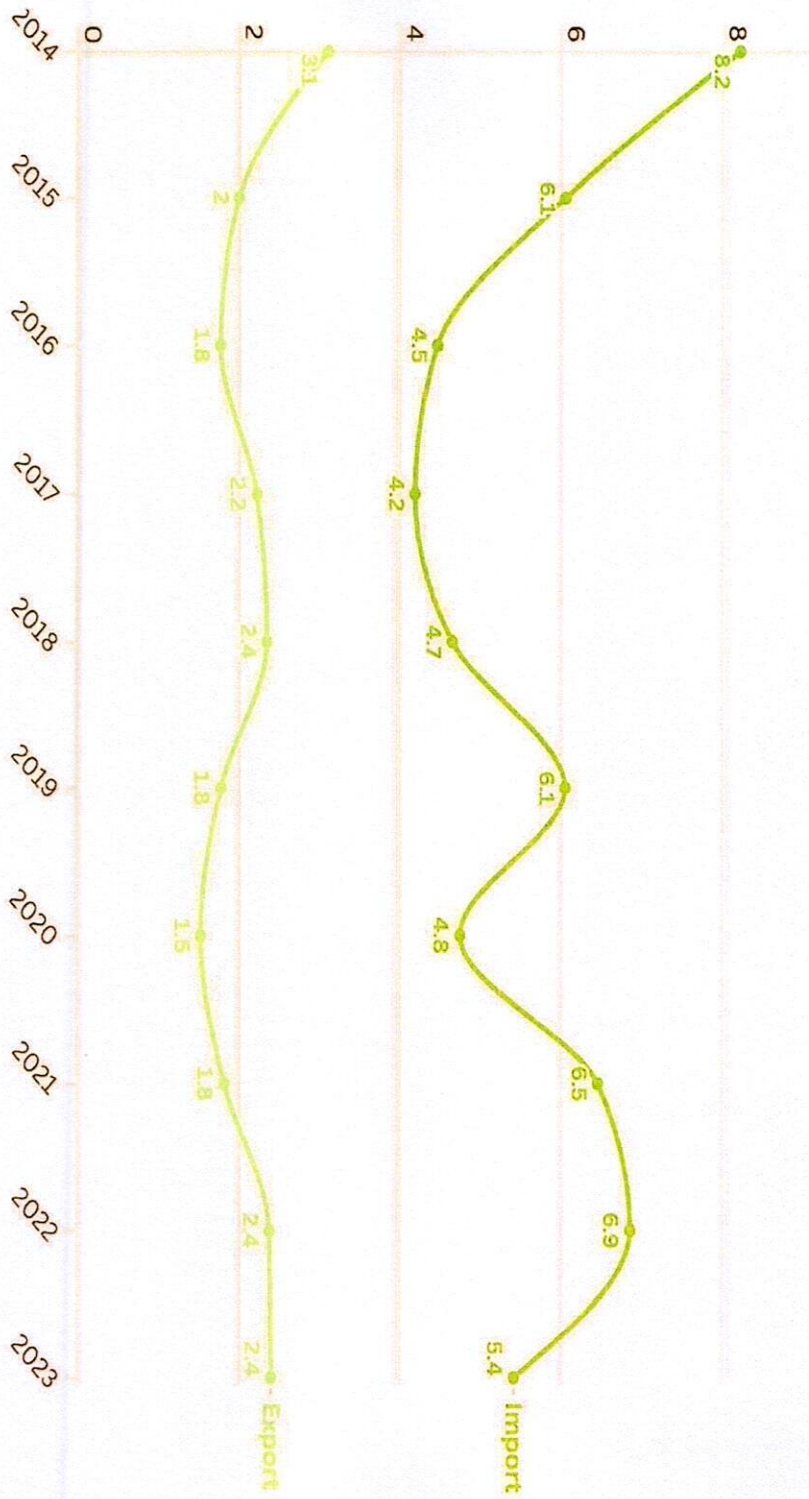
Food Prices Soar: Over 100% Increase in Most Items in the Past Year

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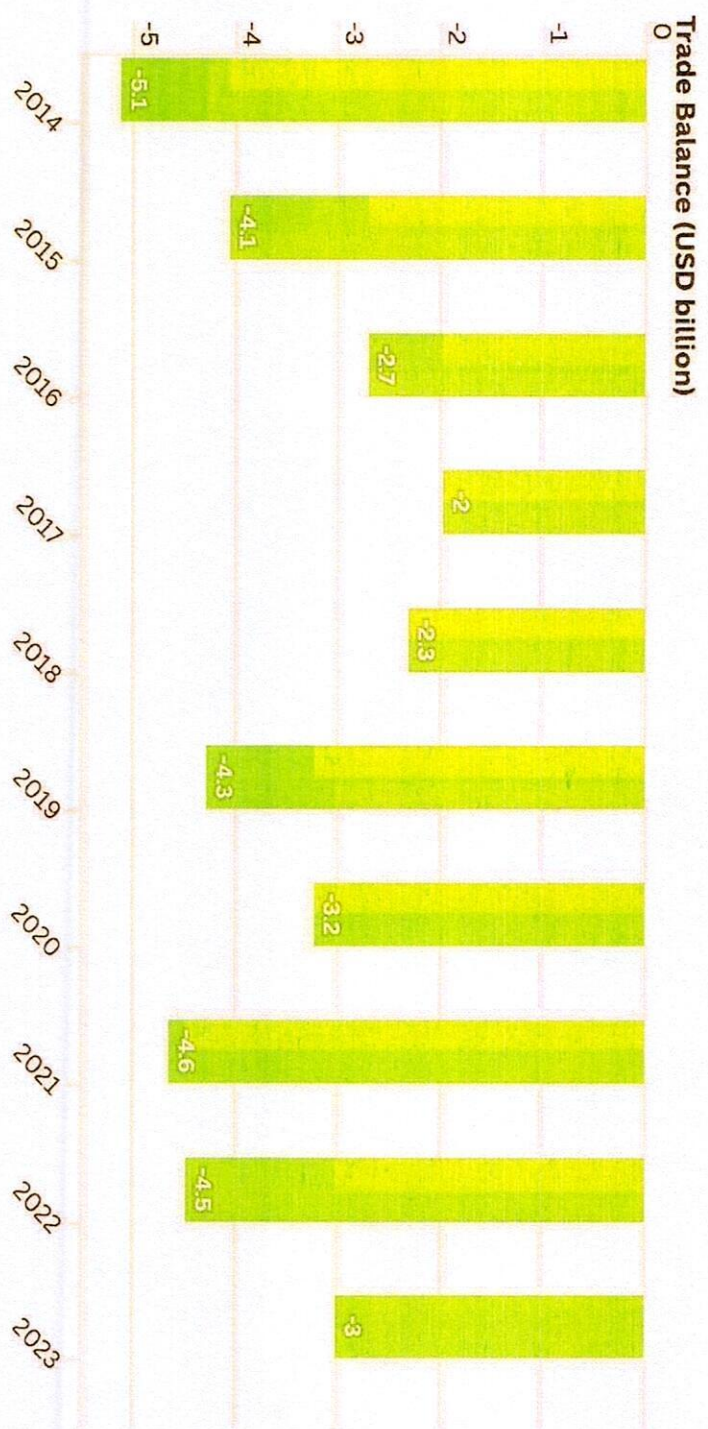
Food Item	Avg. Price (Sep 2023)	Avg. Price (Sep 2024)	Increase (X)	Percentage change (Y-o-Y) ▼
Rice, imported high quality sold loose	N982	N2,404	2.4x	145%
Sweet potato	N360	N870	2.4x	142%
Irish potato	N688	N1,663	2.4x	142%
Mudfish (aroi) fresh	N1,681	N3,994	2.4x	138%
Agric eggs medium size	N1,047	N2,487	2.4x	137%
Wheat flour: prepacked (golden penny 2kg)	N1,515.88	N3,570.75	2.4x	136%
Onion bulb	N516	N1,207	2.3x	134%
Agric eggs (medium size price of one)	N96	N220	2.3x	129%
Catfish (obokun) fresh	N1,823	N4,060	2.2x	123%
Beef Bone in	N2,174	N4,750	2.2x	118%
Bread unsliced 500g	N662	N1,431	2.2x	116%
Titus: frozen	N2,046	N4,417	2.2x	116%
Bread sliced 500g	N708	N1,528	2.2x	116%
Mackerel : frozen	N1,877	N4,047	2.2x	116%
Dried Fish Sardine	N2,248	N4,566	2x	103%

Source: Analysis of NBS data

Agricultural Trade (USD billion)

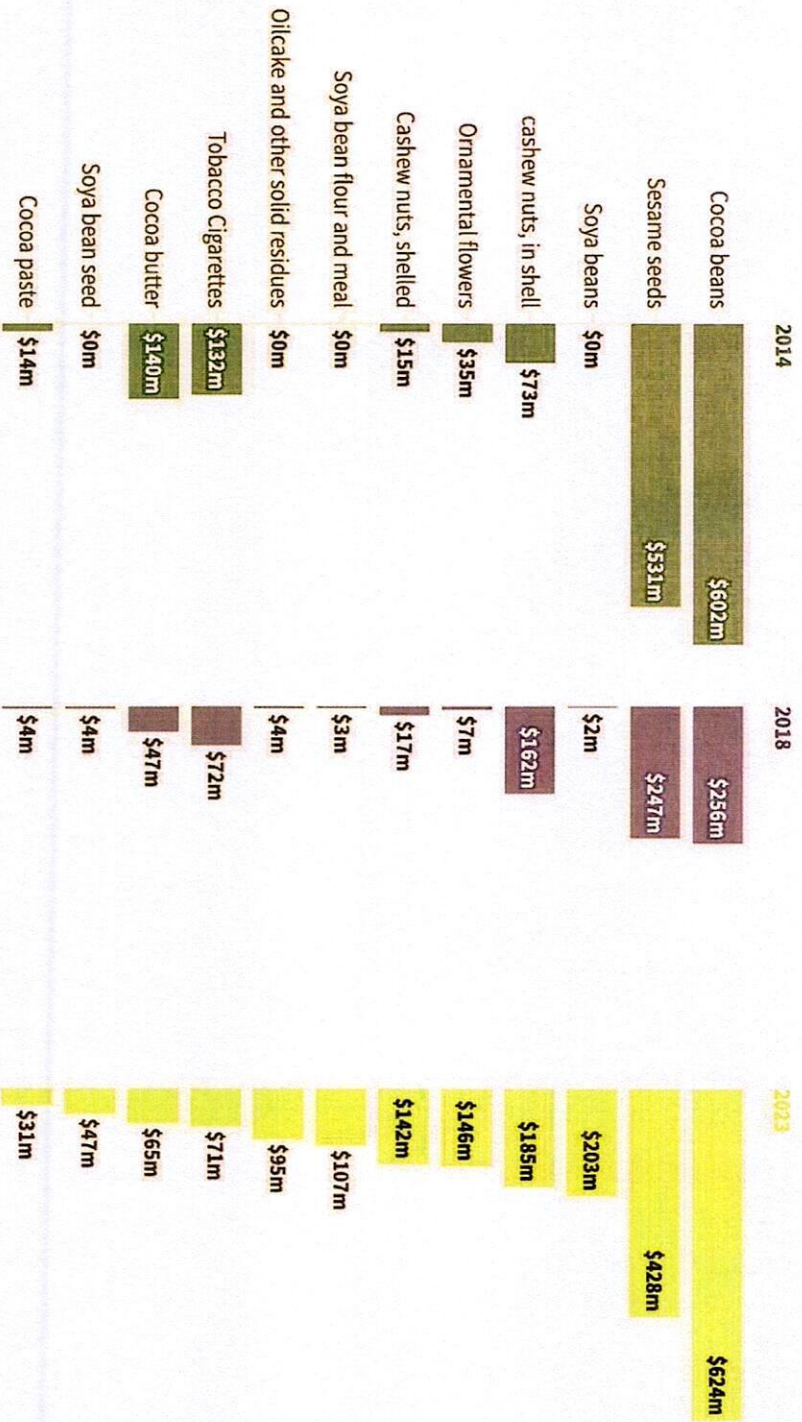


Nigeria has remained a net importer of Agricultural goods



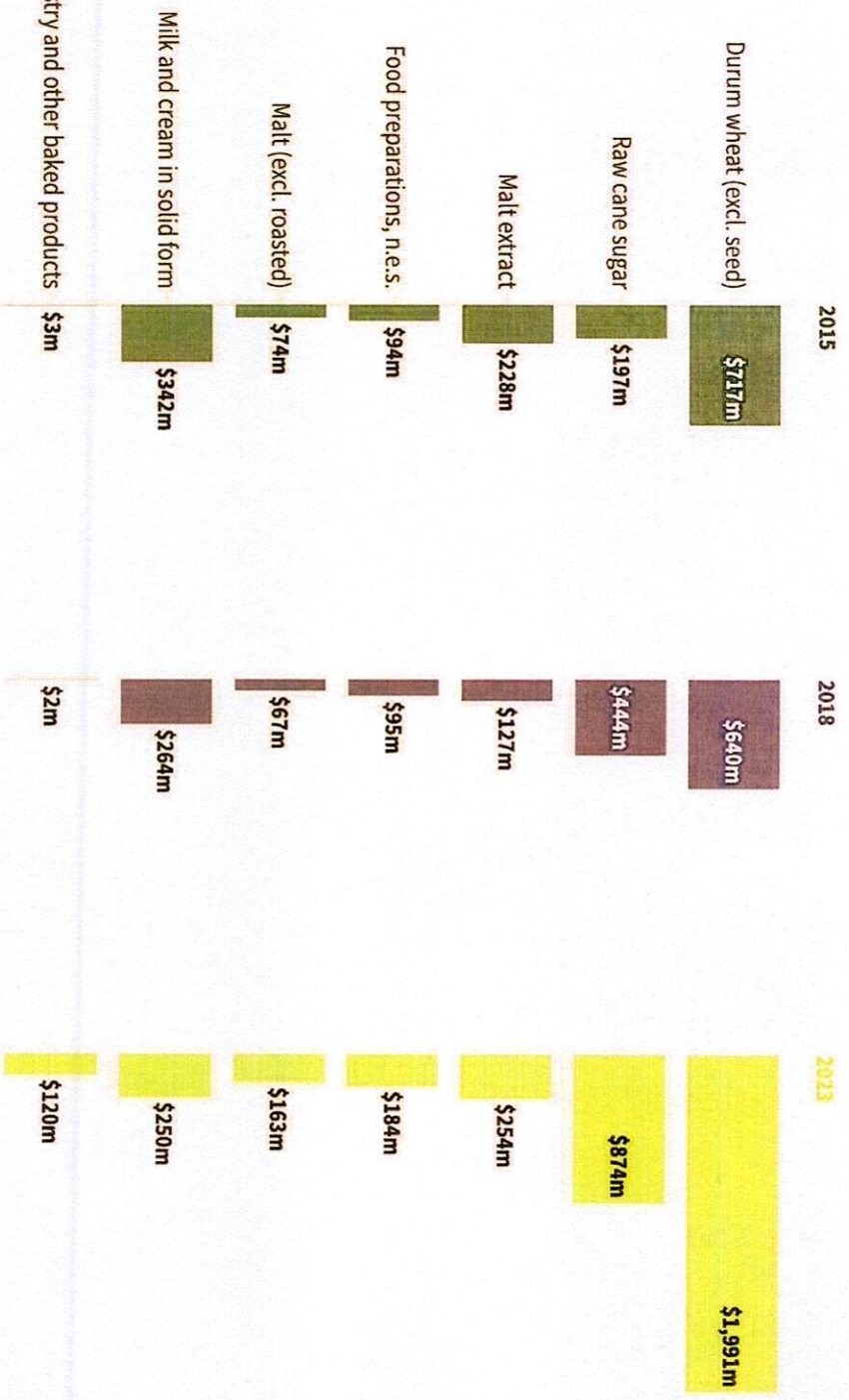
Data Source: UNCTAD

Nigeria's Major Agricultural Exports



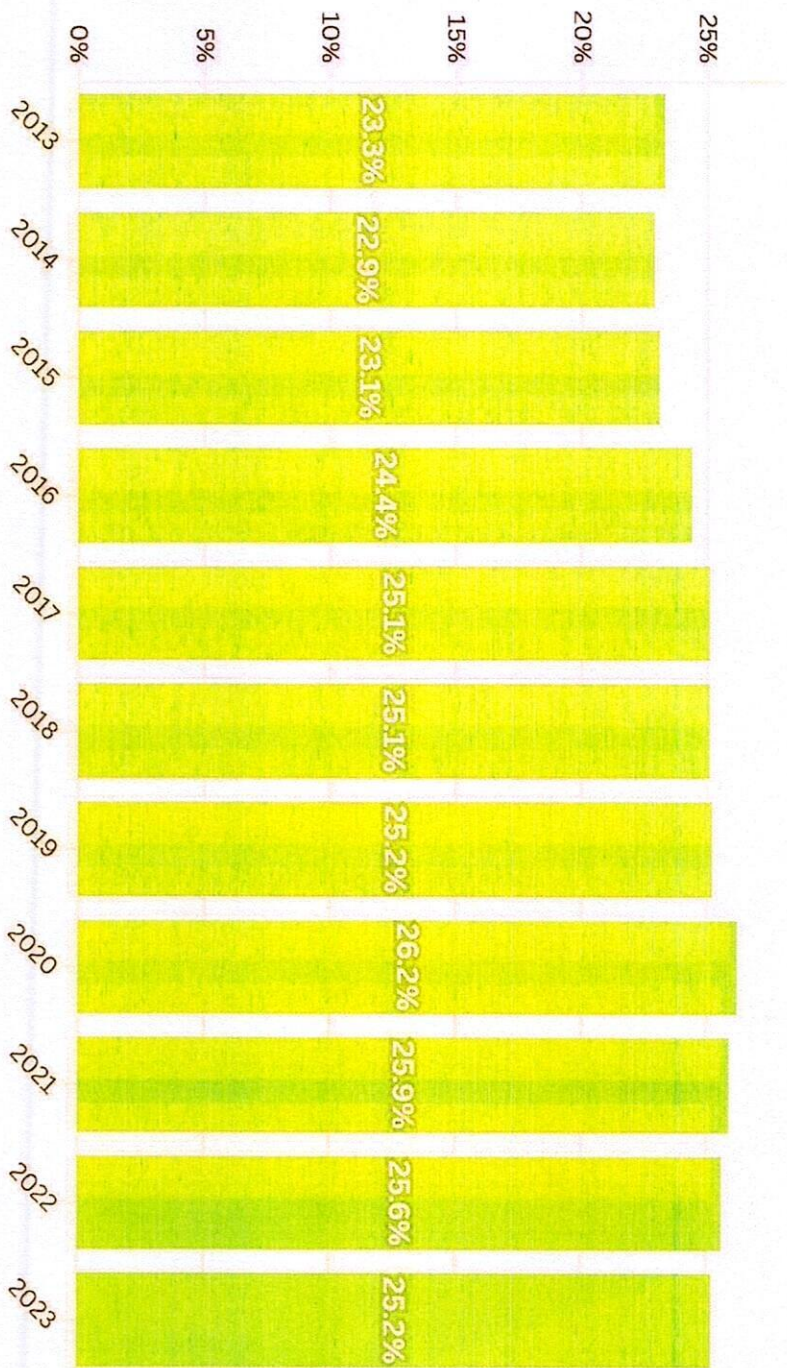
Data Source: Trademap

Nigeria's Major Agricultural Imports

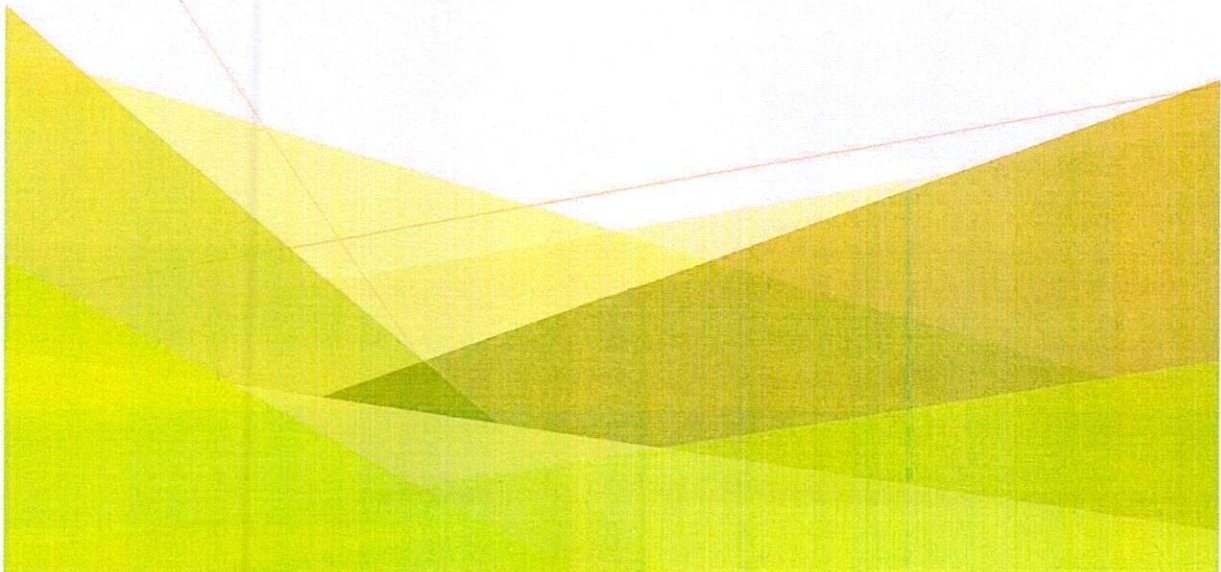


Data Source: Trademap

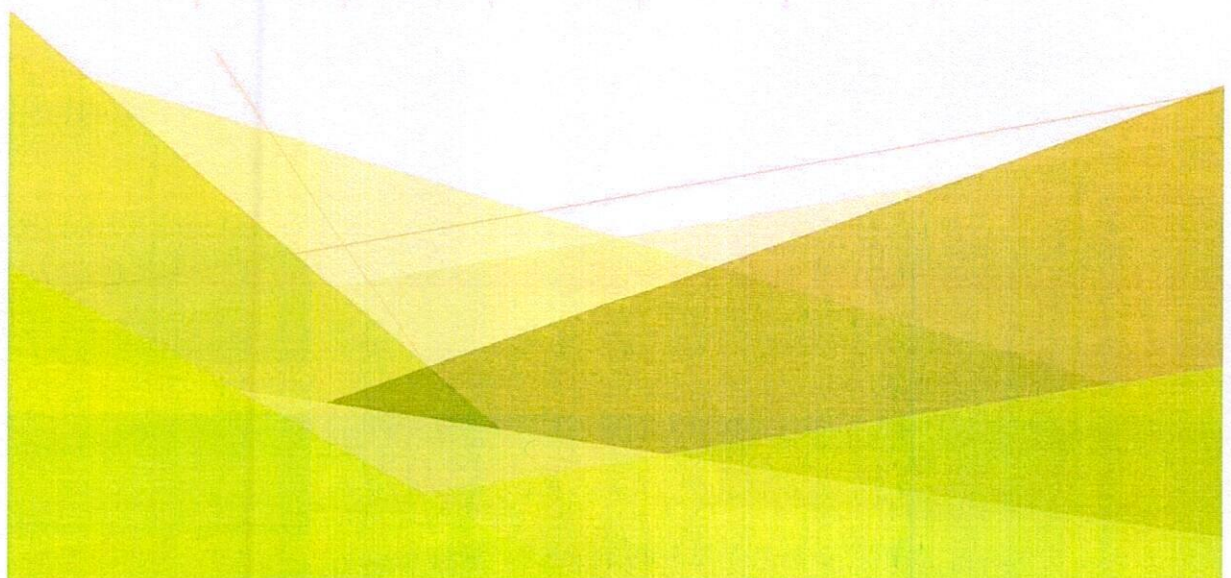
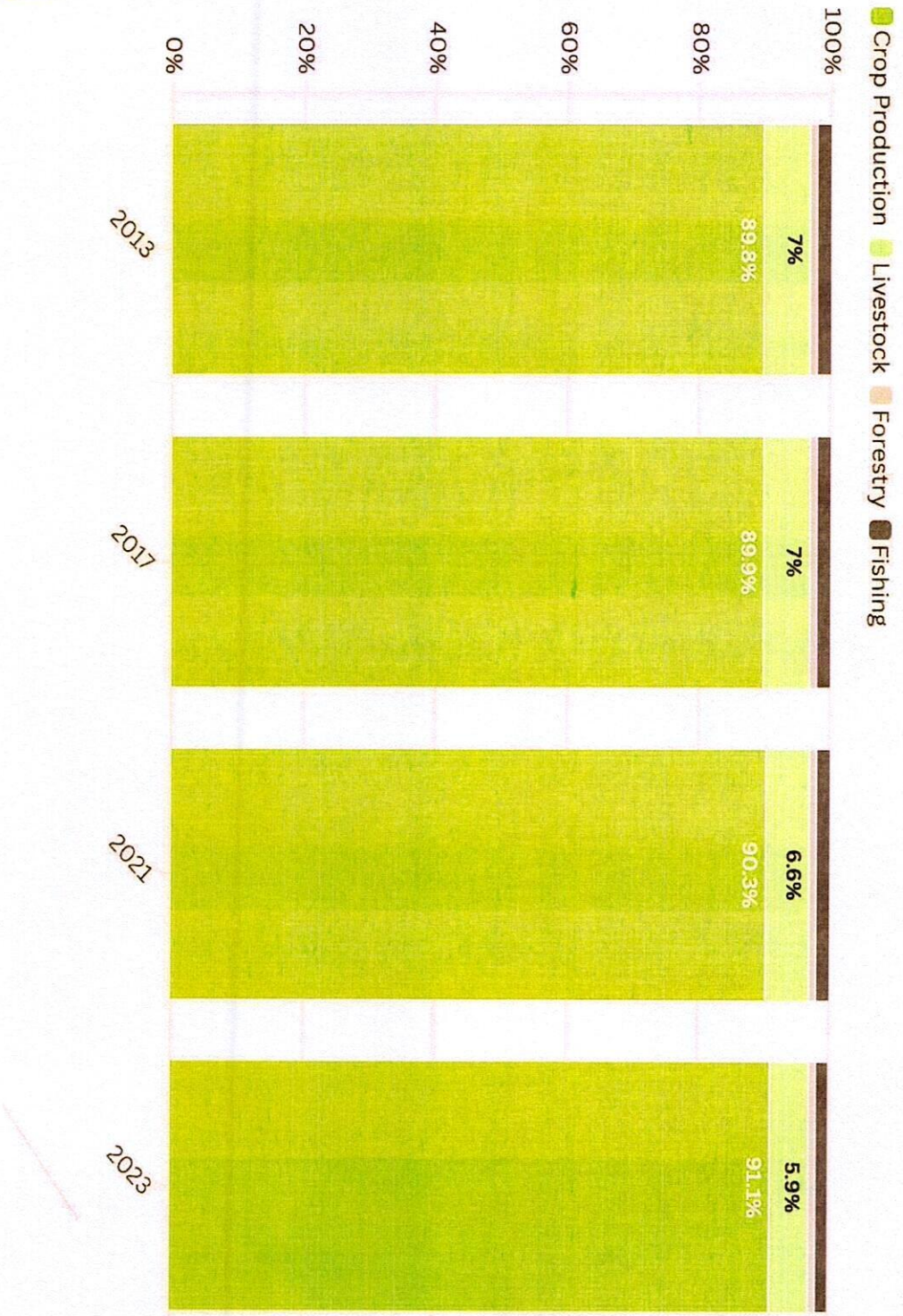
Agriculture's contribution to GDP (2013- 2023)



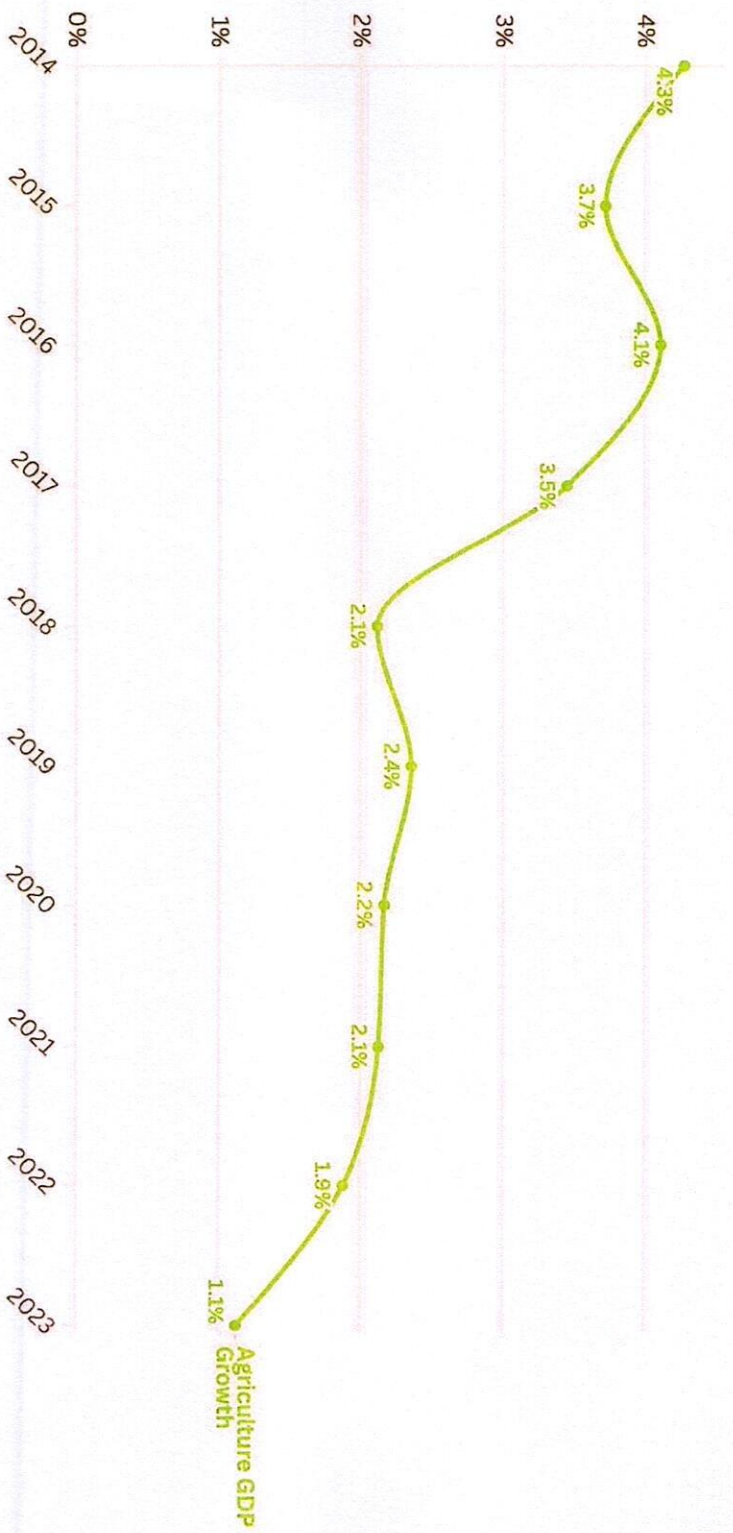
Data Source: NBS



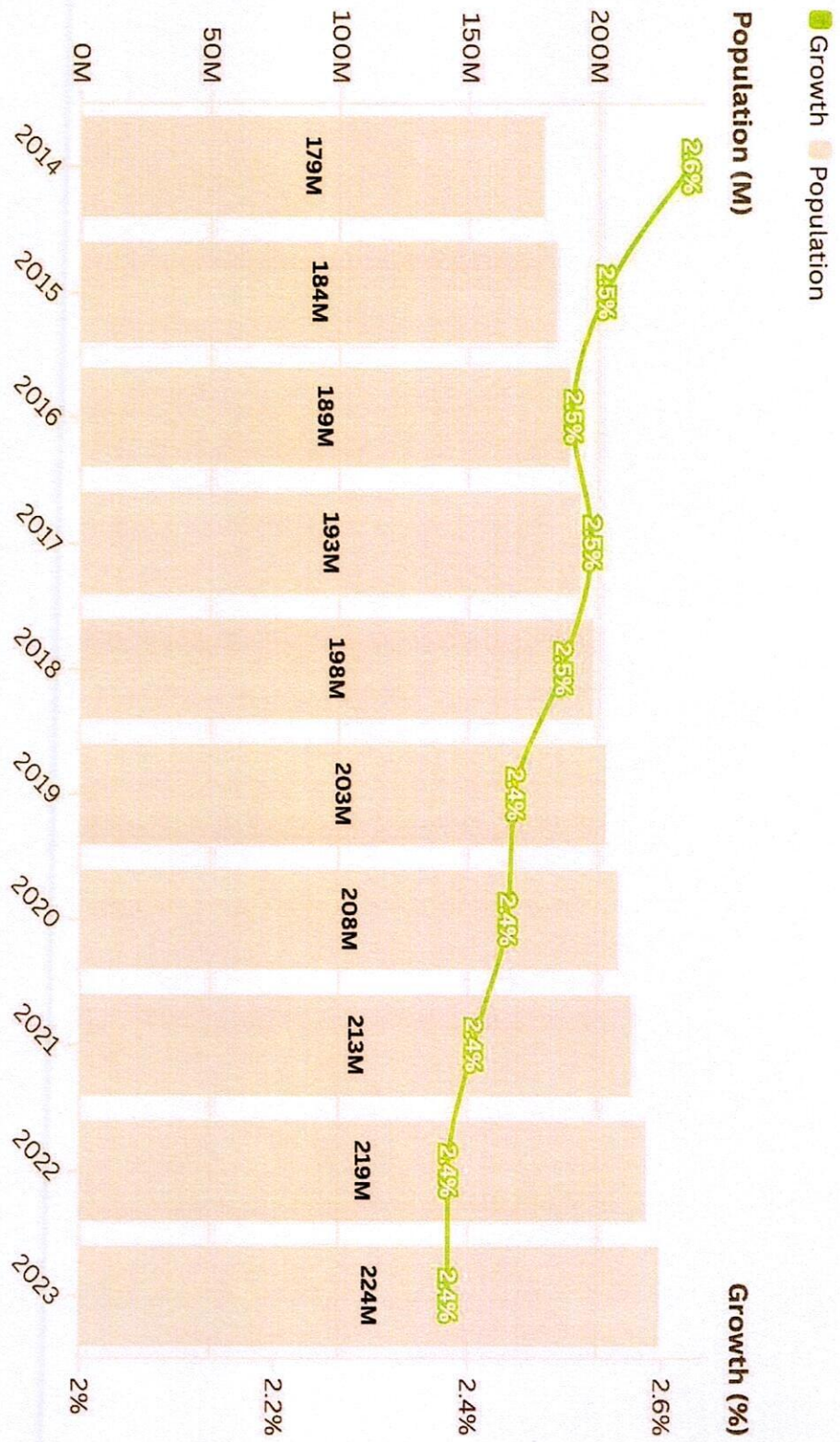
Contribution of sub-sectors to Agricultural GDP



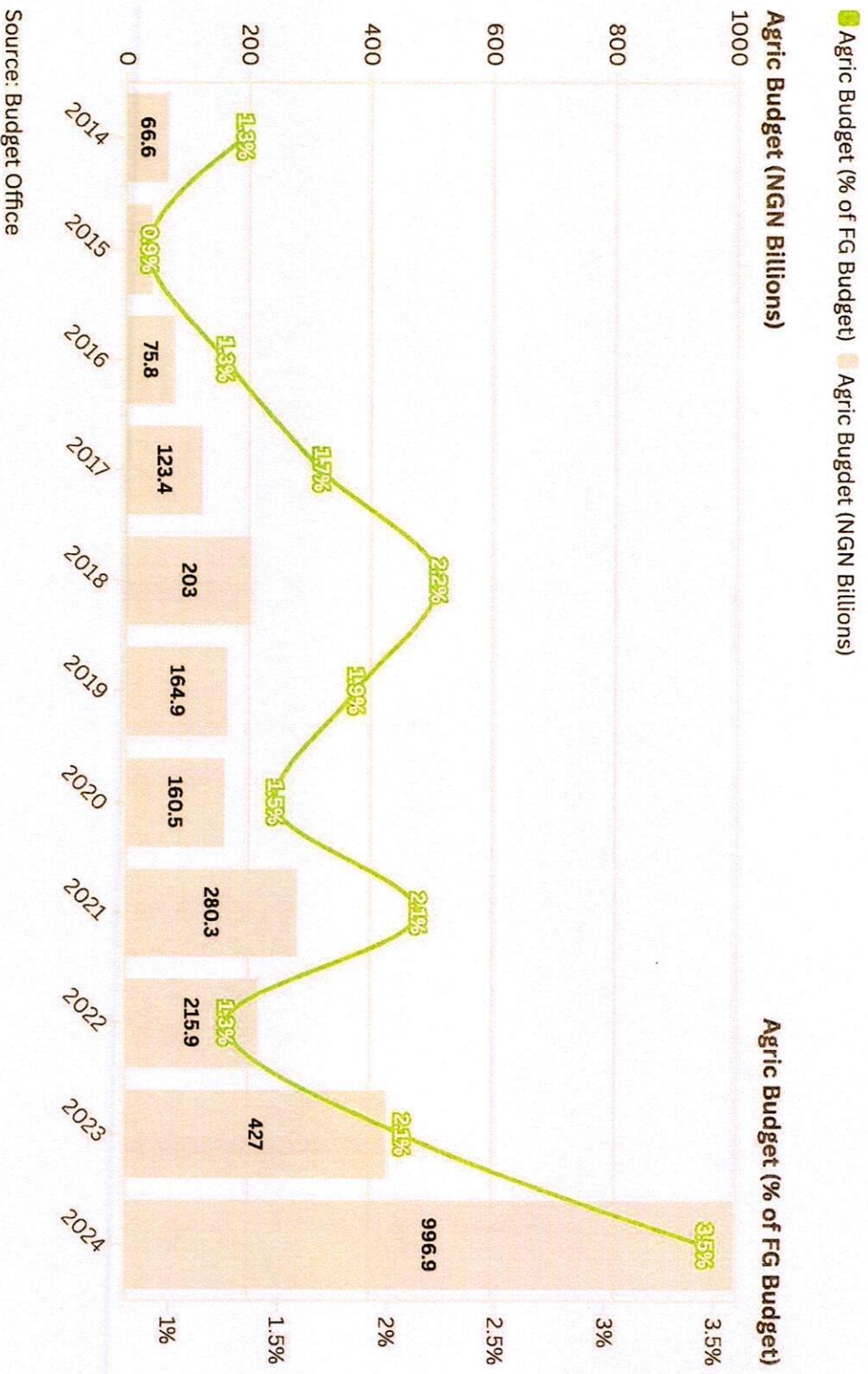
Agricultural sector growth has consistently declined over the last decade



Data Source: NBS



Source: World Bank
M = Millions



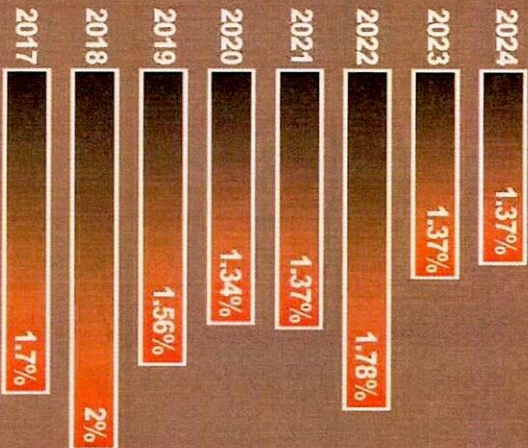
Source: Budget Office

Food Inflation

10-Month Food Inflation Trend



Agriculture Budget Ratio Since 2017



- **Global food Insecurity increased by 12.6% within the very first week of the Russian/ Ukraine war.**
- **The two countries feed nearly half the global population with grains particularly Wheat.**
- **Russia is the major producer of Wheat, Soya beans, Seeds, Fertilizers and Agricultural machinery.**
- **Ukraine has 42 million hectares of viable agricultural land.**
- **Rising price of wheat, more than 45 countries, 18 in Africa depend on Ukraine for their Wheat demands.**

- **The World Food Programme (WFP) of the United Nations also gets 50% of its annual food support from the two countries.**
- **Fuel, a major export of both Russian and Ukraine has skyrocketed across the world, with the USA been the worst hit.**
- **Ukraine alone accounts for 25% of the global fertilizer demand of the world.**
- **In the rainy season of (2021), 50kg of NPK fertilizer sold for 7,000 Naira in Nigeria, this rainy season (2022) is 30,000 Naira.**

- **Remember, the Chairman of the African Union, President Macky Sall of Senegal was in Russia to lobby for softer restrictions on Ukrainian exports of particularly Wheat to Africa.**
- **The EU is also lobbied for the release of about 22 million metric tonnes of Wheat stored in Ukraine.**
- **As for Nigeria, the almost 80% rise in the prices of breads, flour, pastas and cakes, will continue unless an alternative to Wheat is found.**

ROLE OF THE MEDIA IN

ACHIEVING NATIONAL FOOD SECURITY

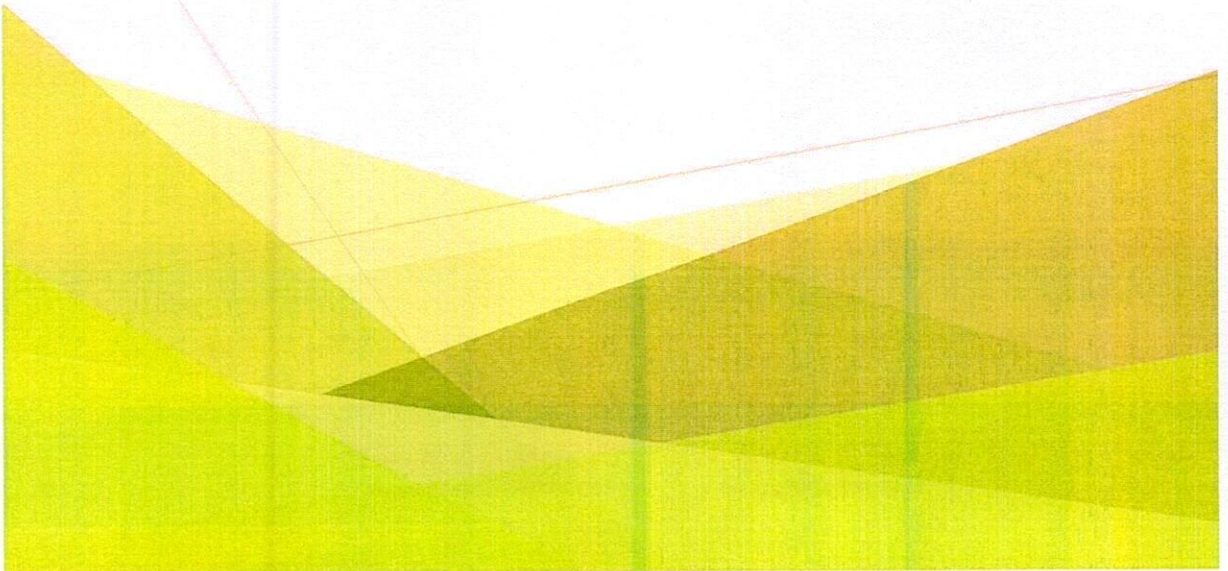
McQuail Dennis said

“The mass media are intermediate and mediating in several senses: they often lie between use (as receivers) and that part of potential experience which is outside our direct perception of contact: they stand between ourselves and other institutions with which we have dealings... they provide link between these different institutions...”

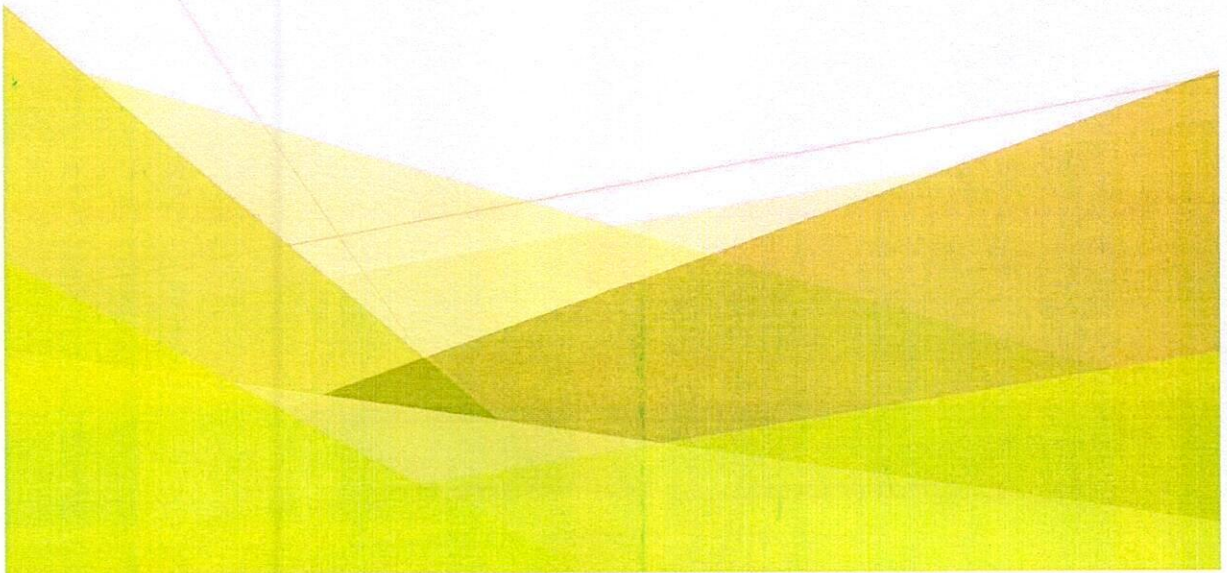
- **A window which extends vision**
- **An interpreter which explains and makes sense out of what is said**
- **An interactive which relates senders to receivers**
- **As a signpost which direct.**
- **Surveillance of the world to report on-going events**
- **Interpretation of the meaning of the events**
- **Socialization of individuals into their cultural settings**

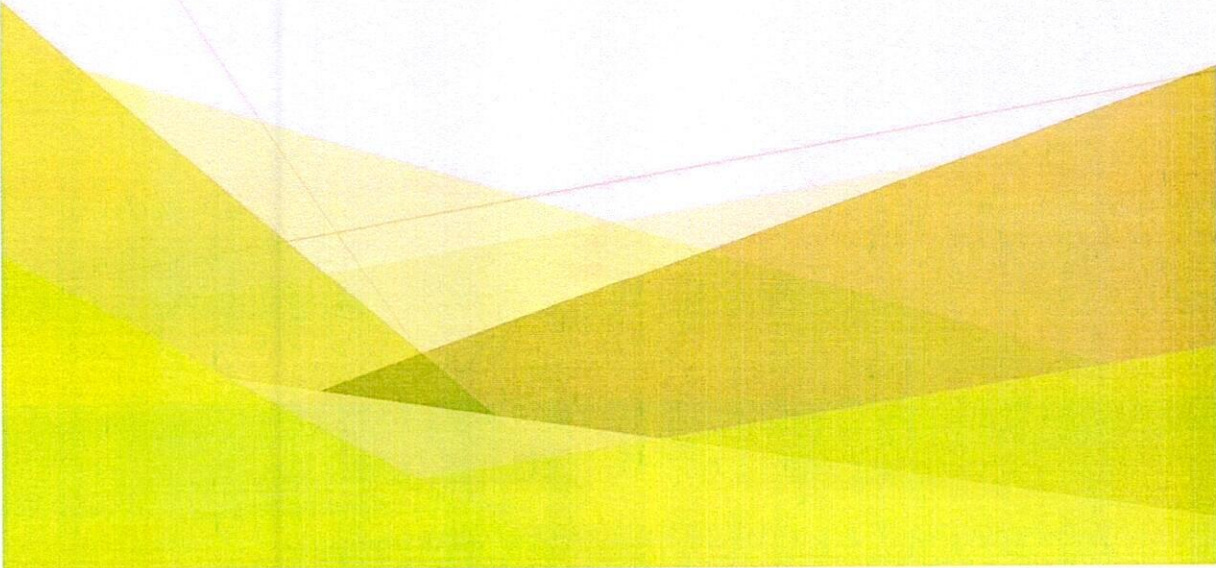
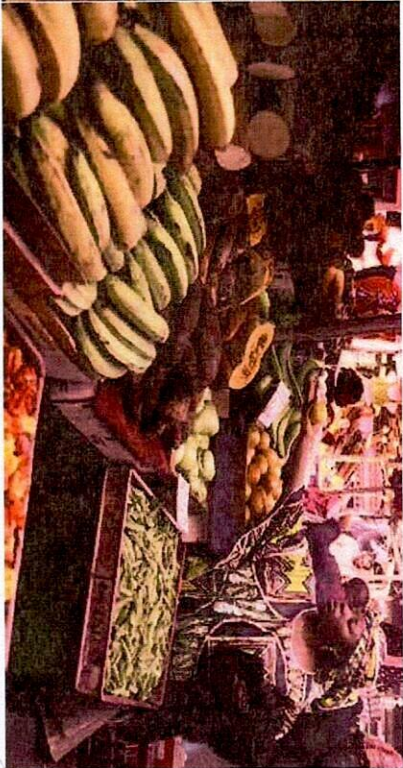
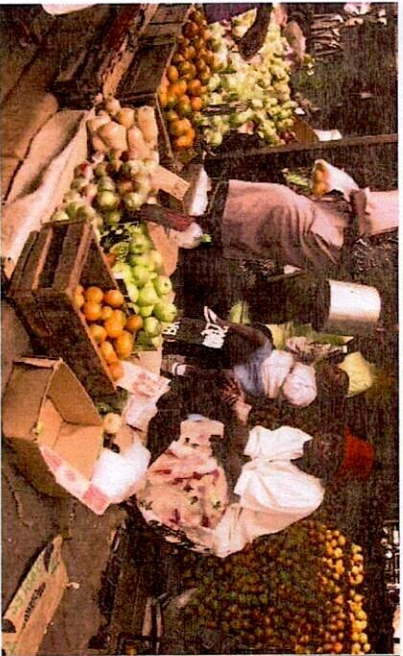
EXTENSION DELIVERY SYSTEM

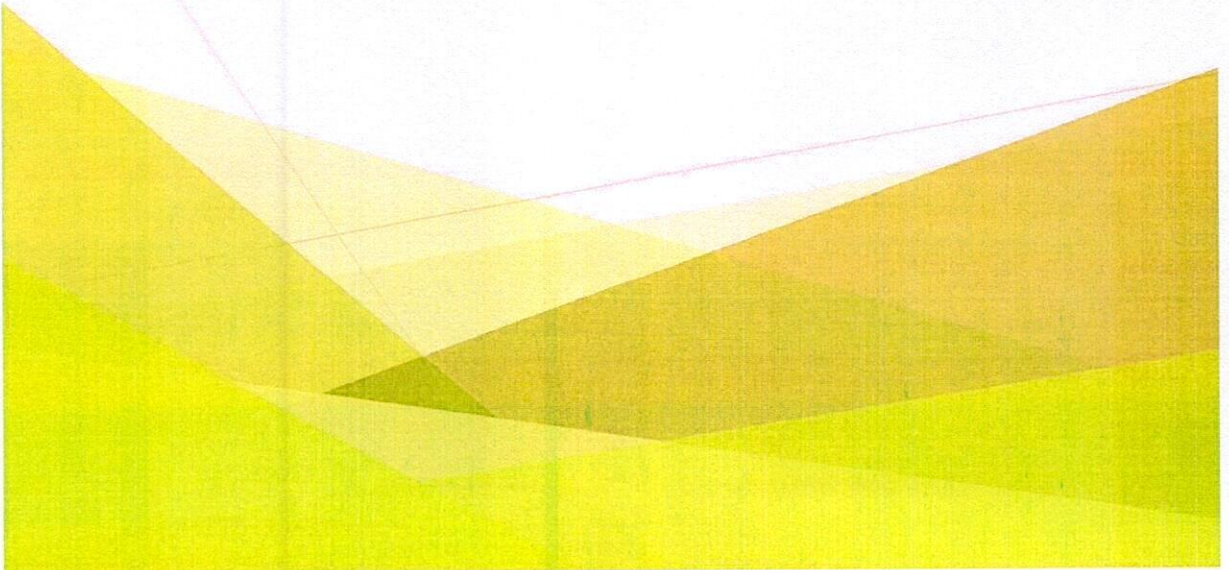
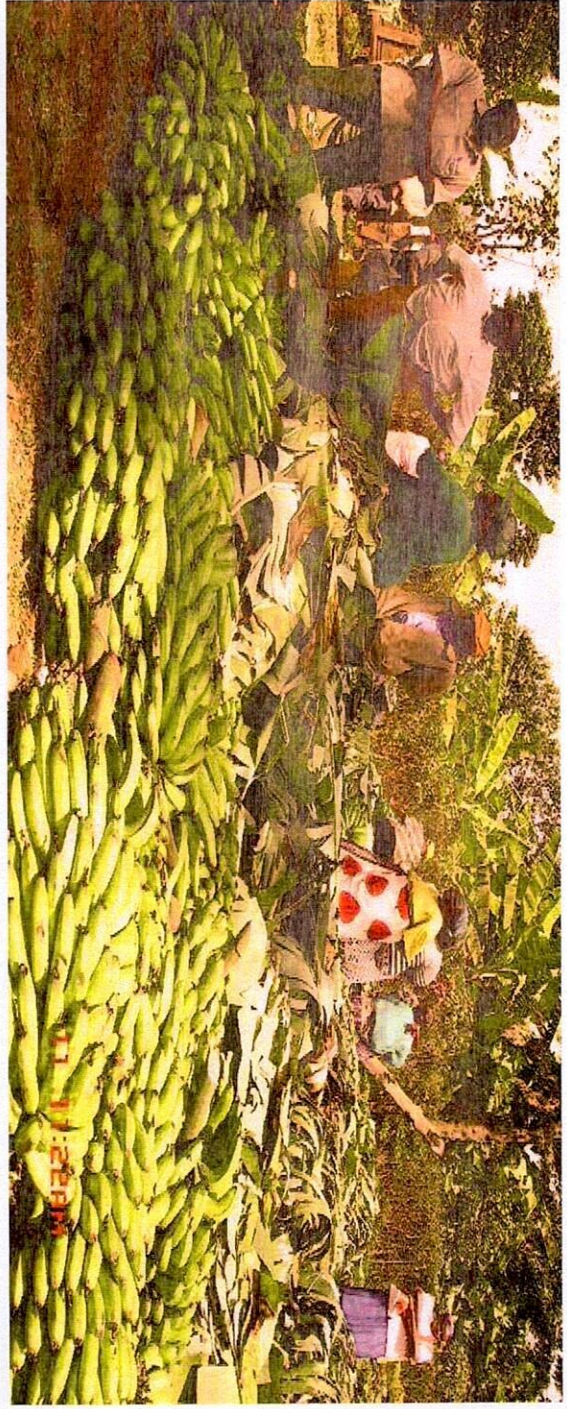
FAO/UN Farmers	1 Extension officer	- 50
World Average Farmers	“	- 500
African Average Farmers	“	- 5000
Nigeria Farmers	“	- 500,000

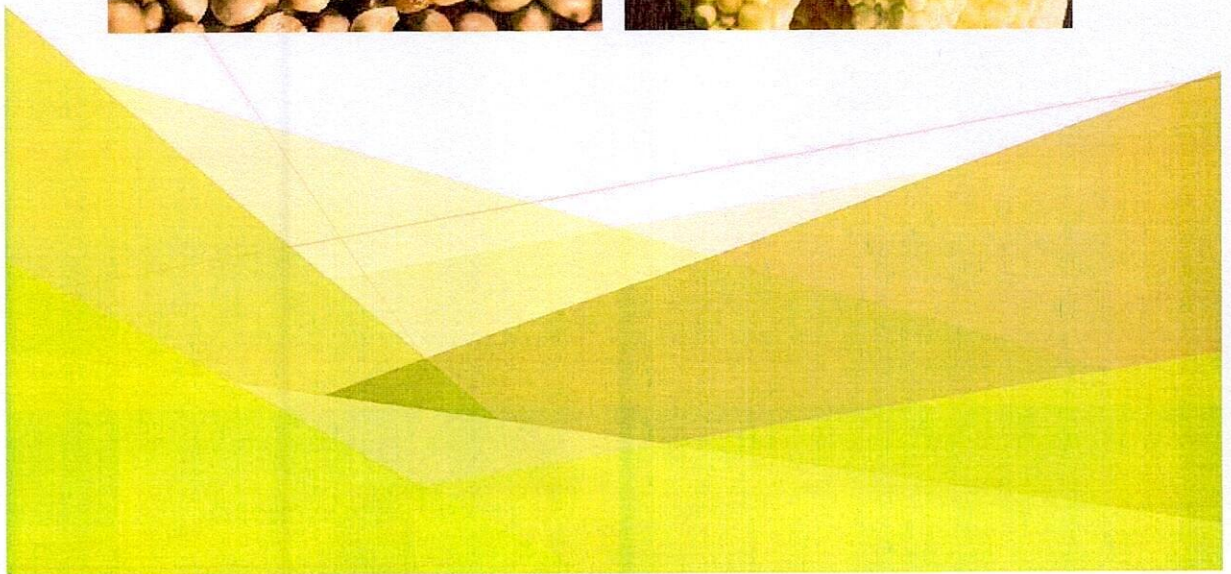
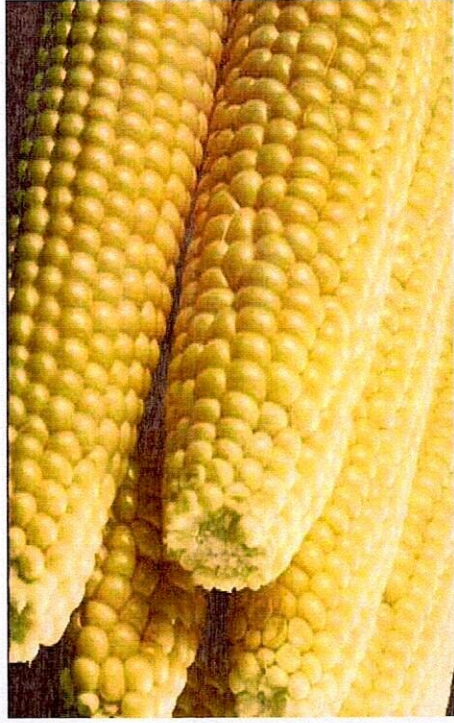




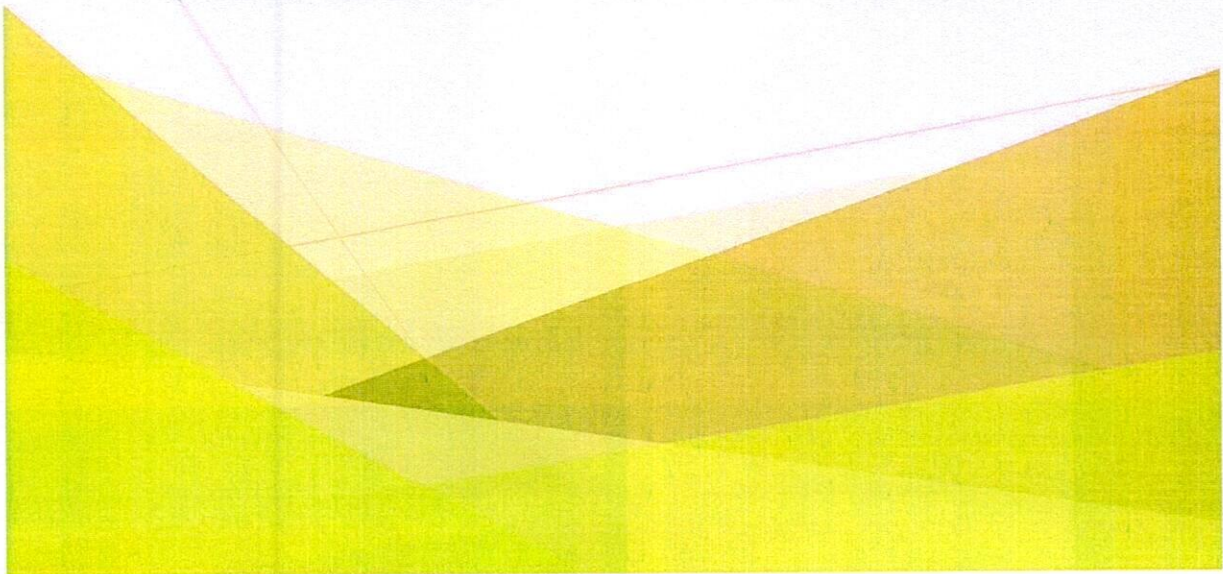




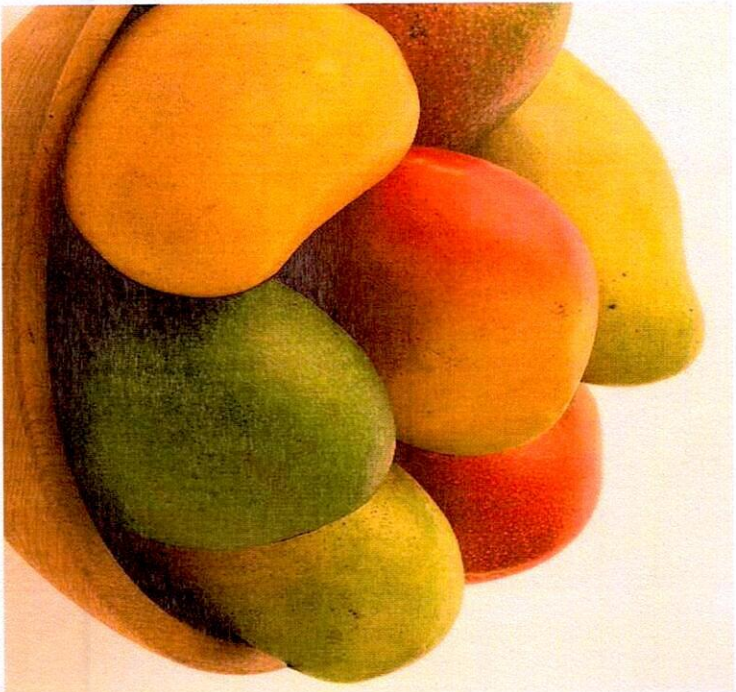
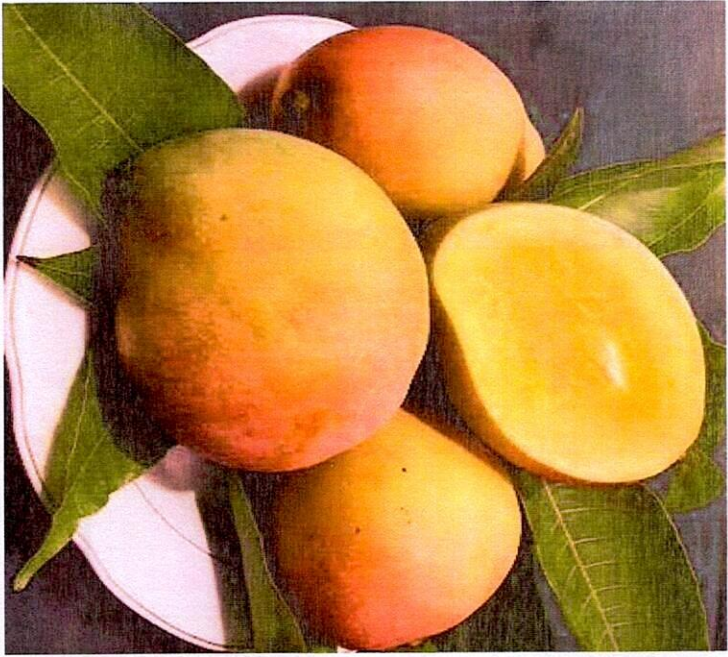




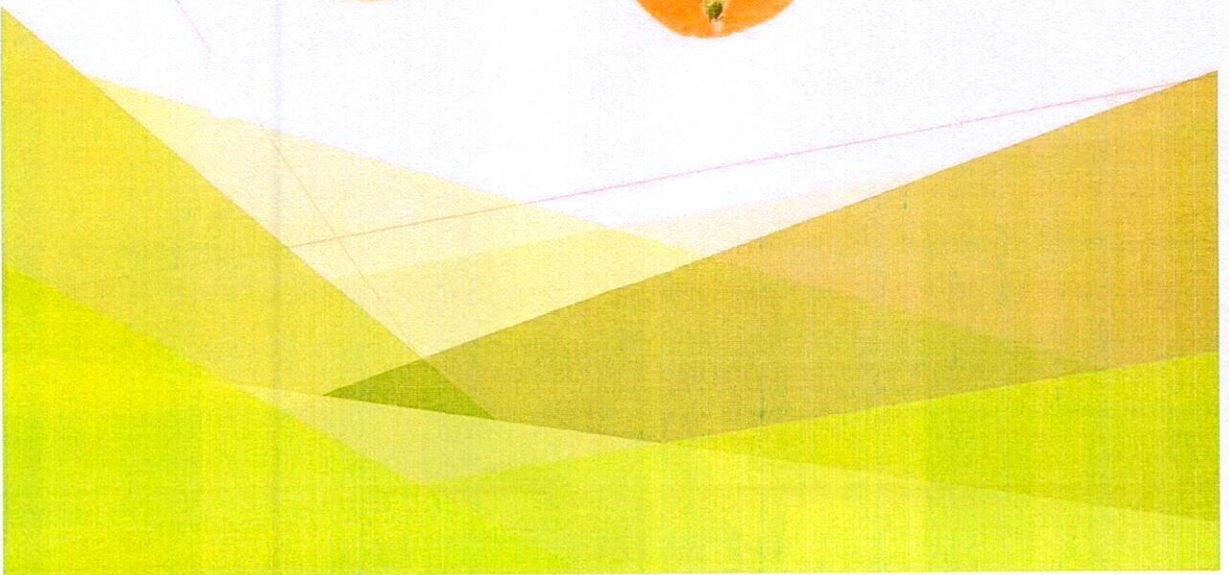
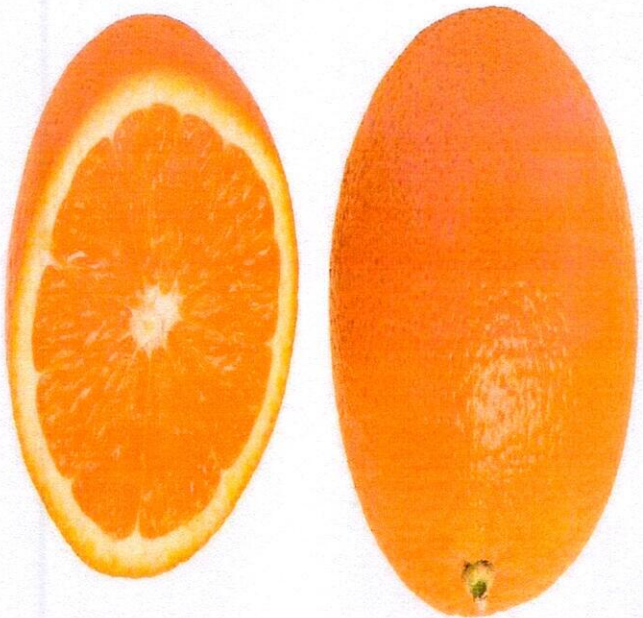
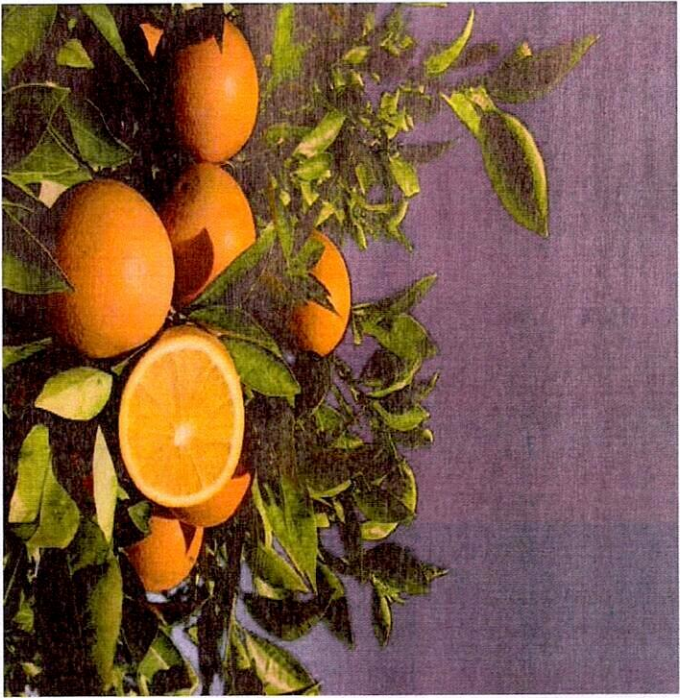
PINEAPPLE: *Ananas comosus*



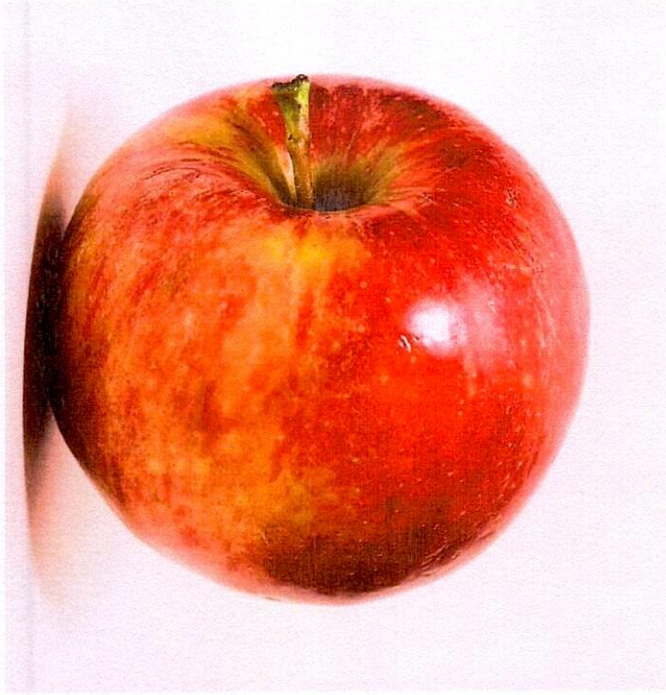
MANGO: *Mangifera indica*



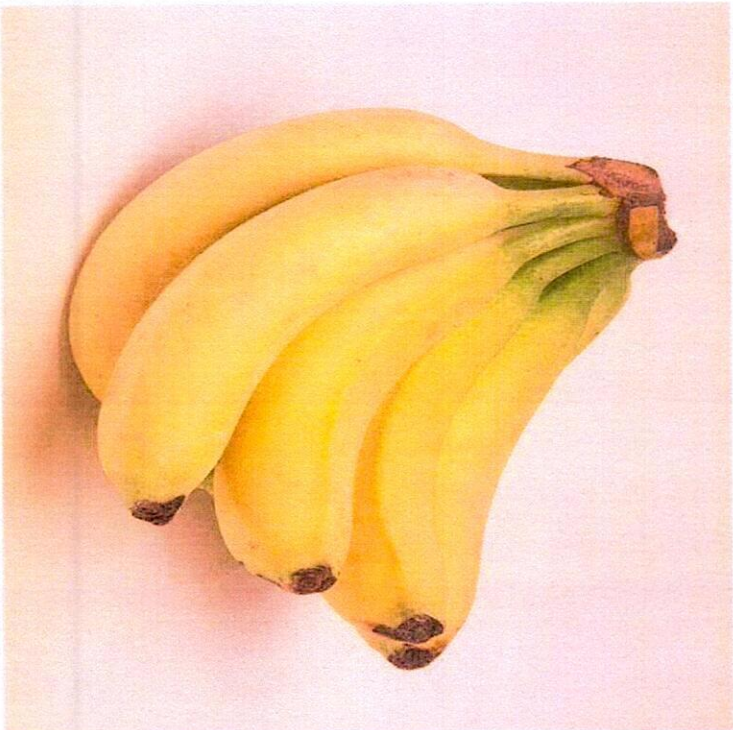
ORANGE: *Citrus sinensis*



APPLE: *Malus domestica*



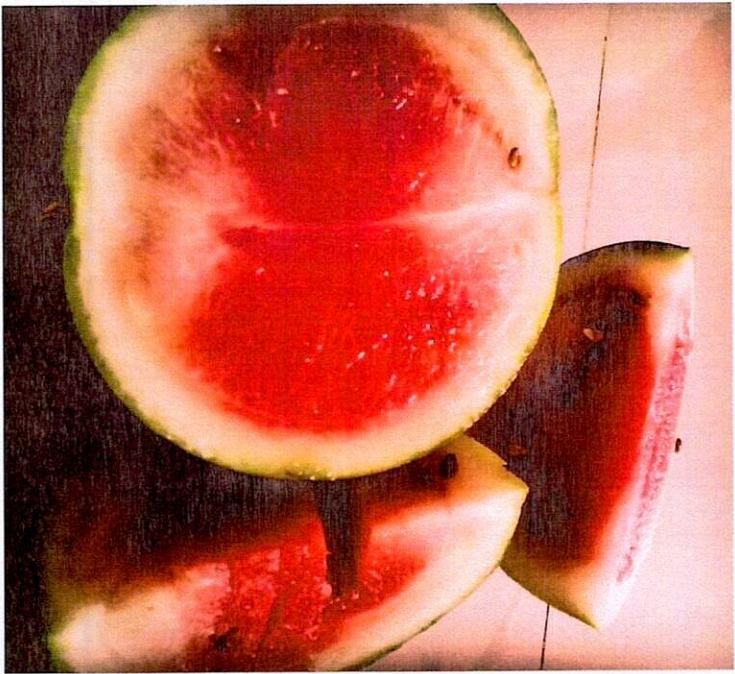
BANANA: *Musa spp*



DATE: *Phoenix dactylifera*



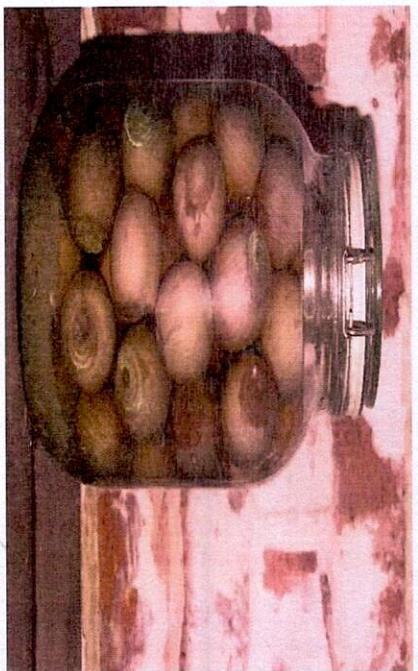
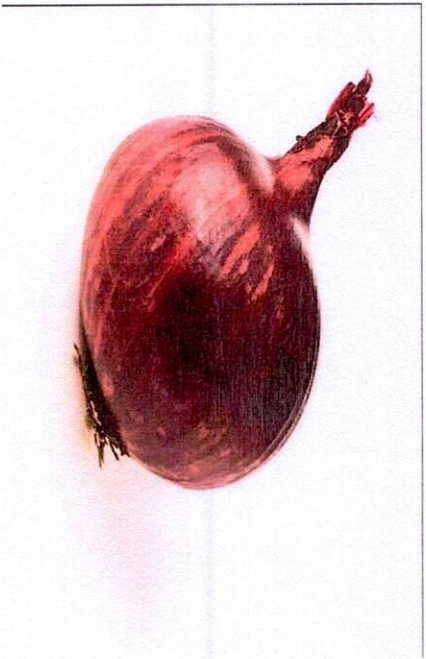
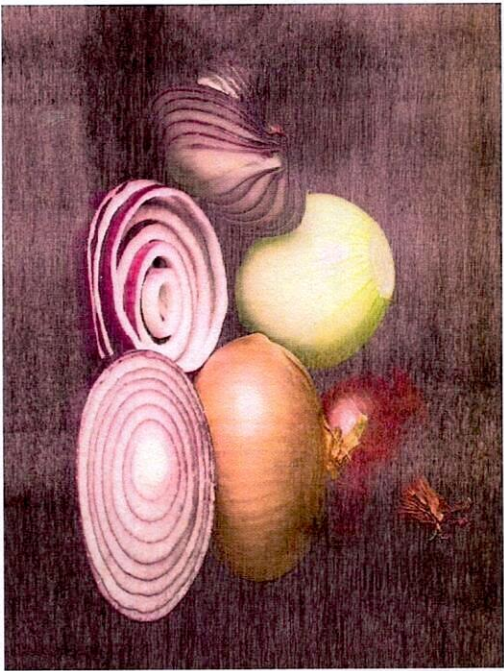
WATERMELON: *Citrullus lanatus*



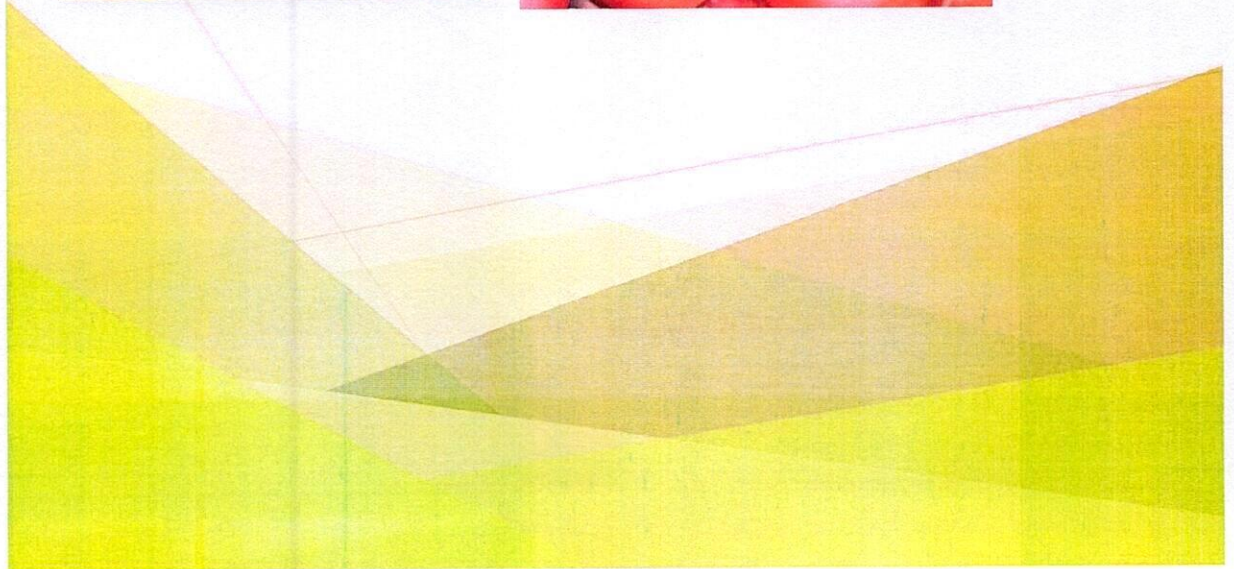
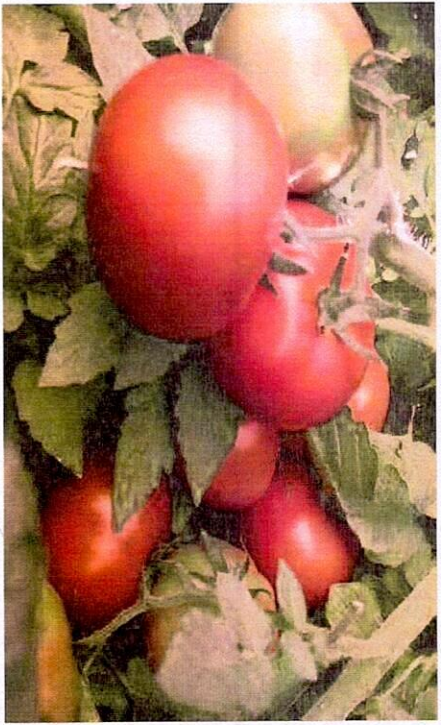
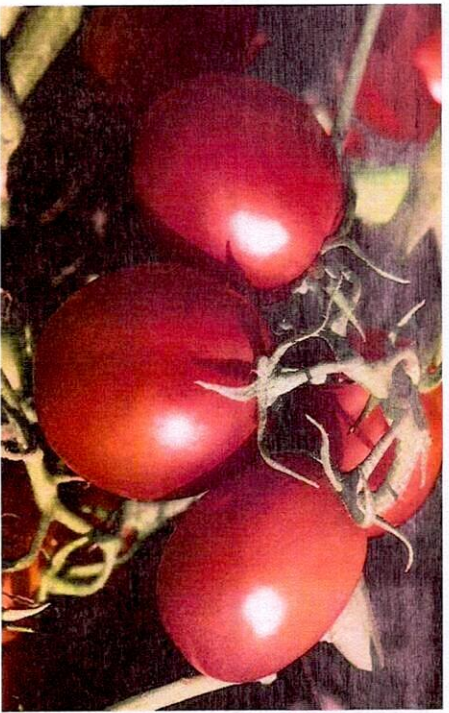
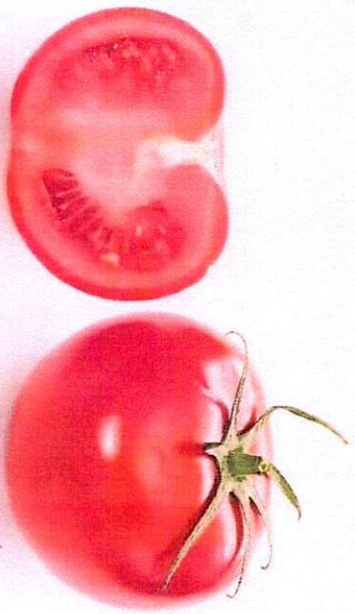
TANGERINE: *Citrus reticulata* Blanco



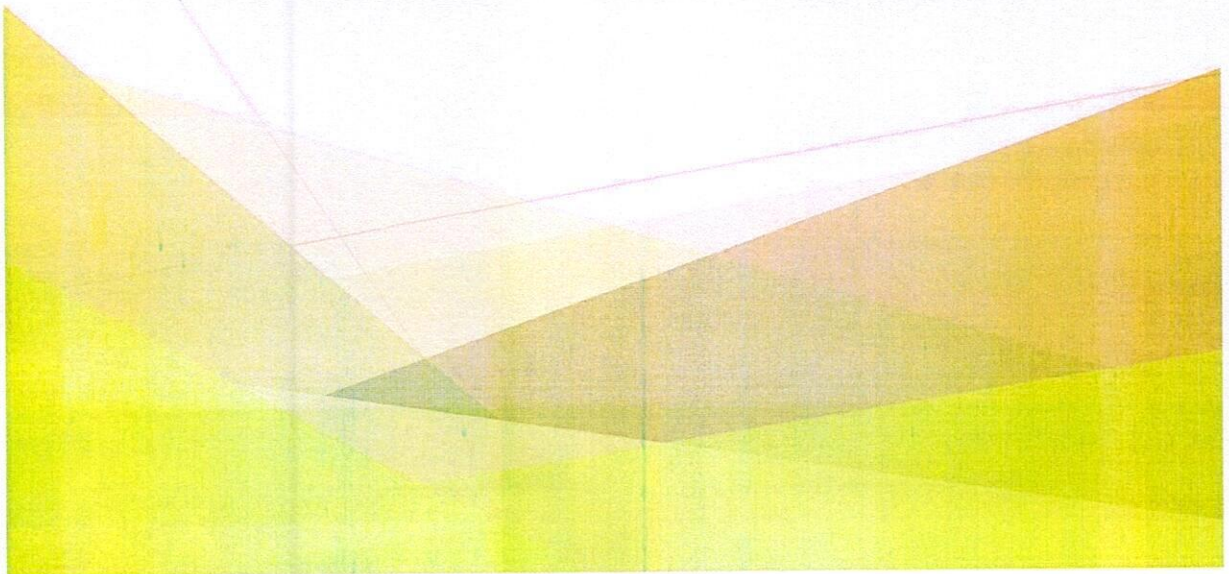
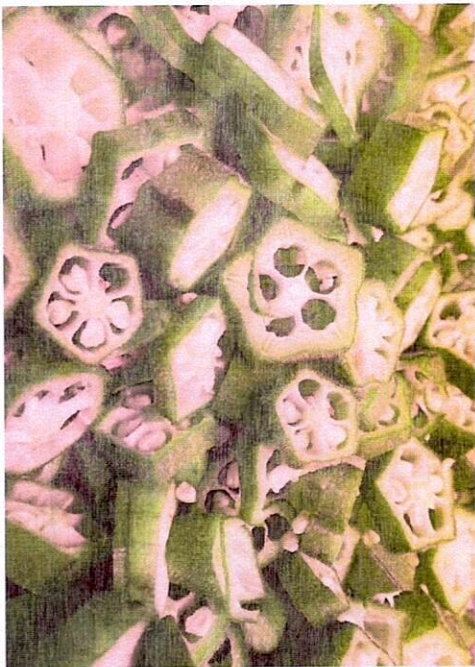
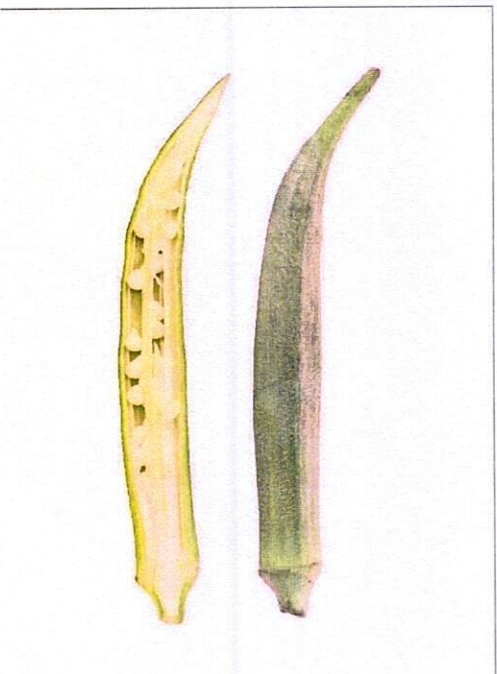
ONION: *Allium cepa*



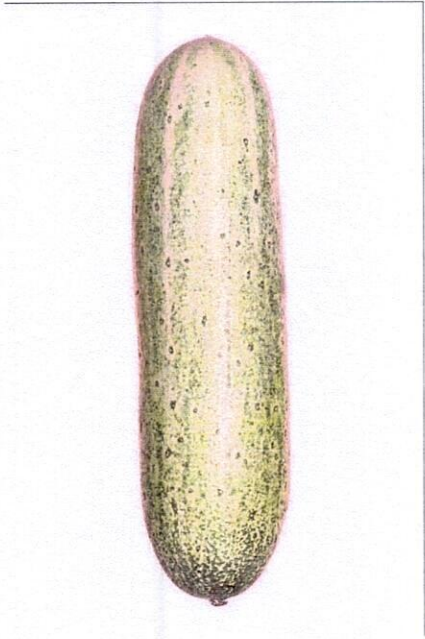
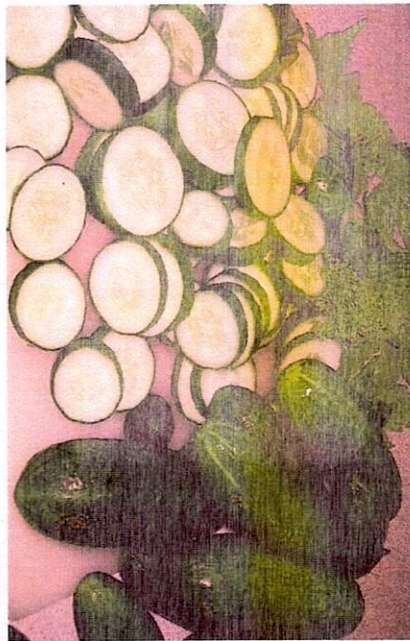
TOMATO: *Lycopersicon Lycopersicon*



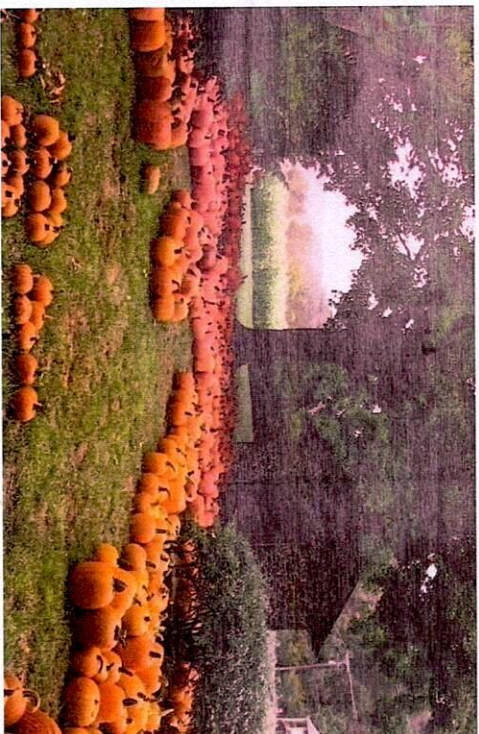
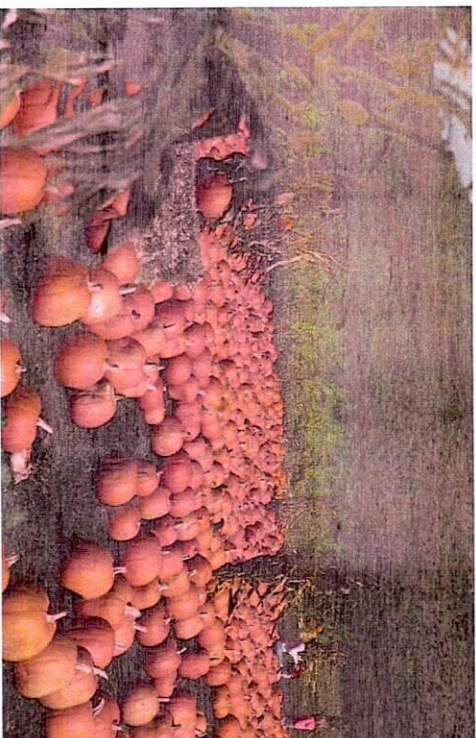
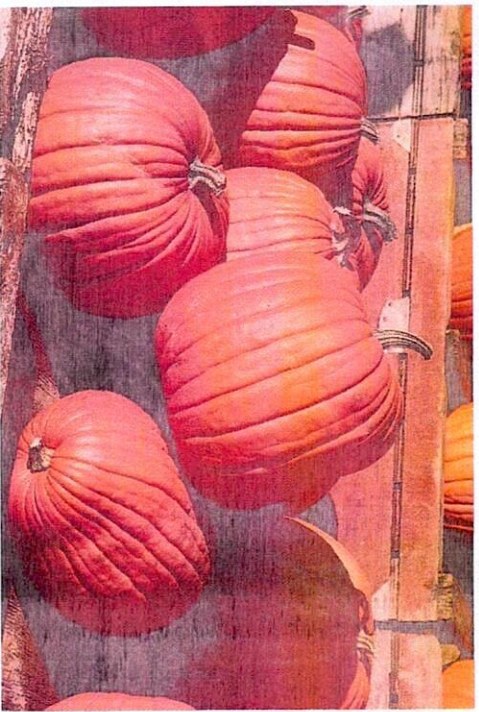
OKRA: *Abelmoschus esculentus*



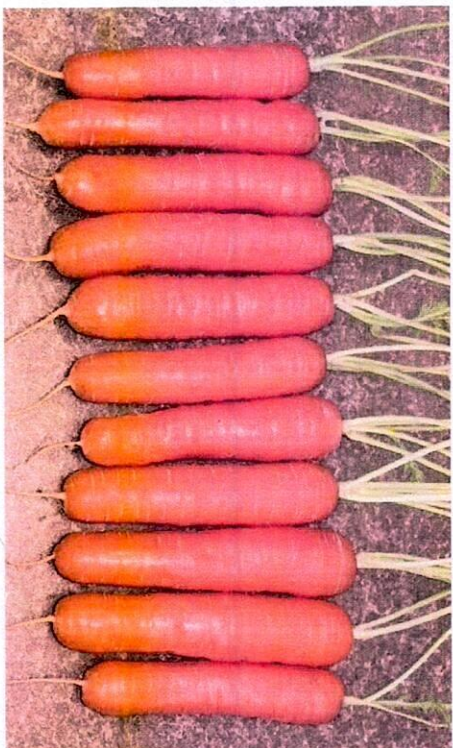
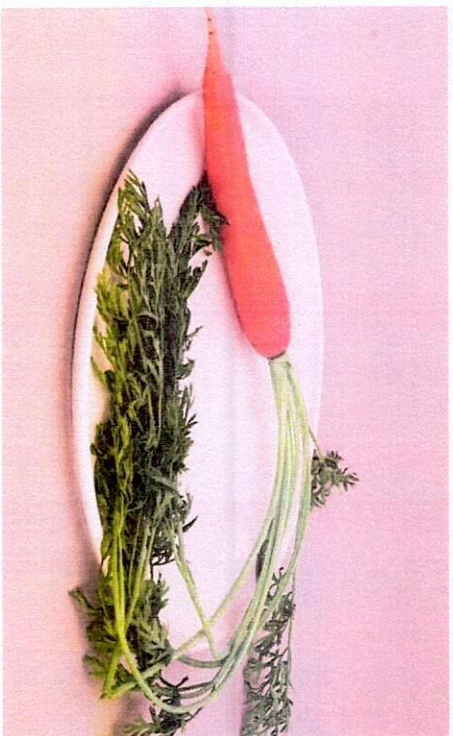
CUCUMBER: *Cucumis sativus*



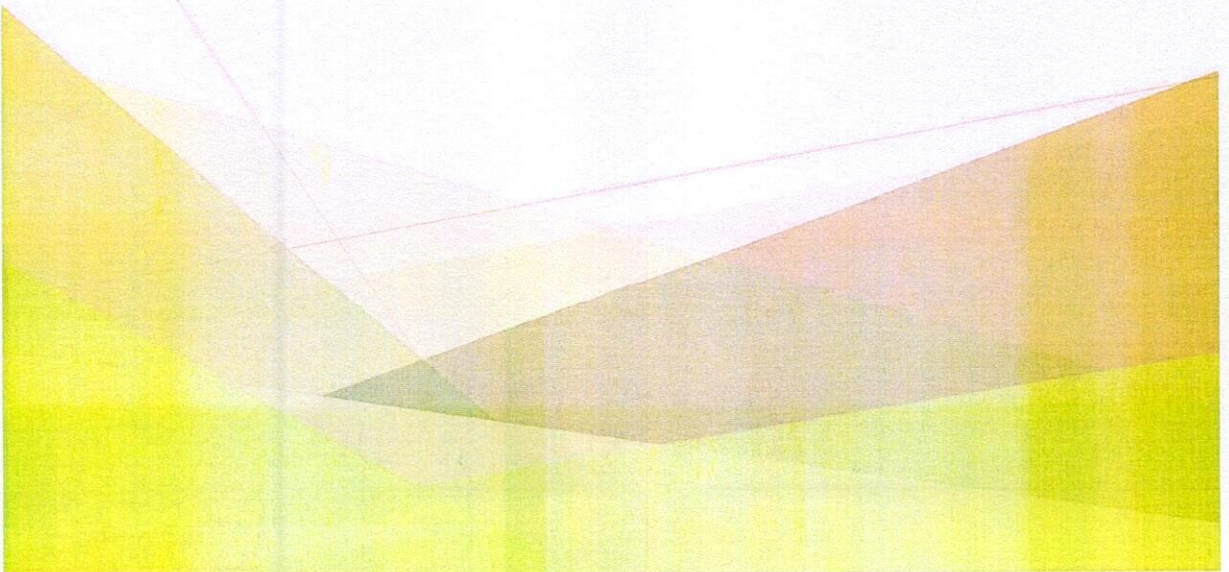
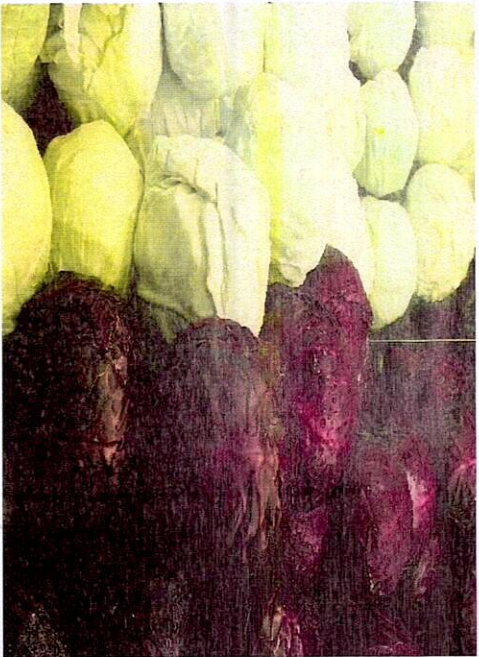
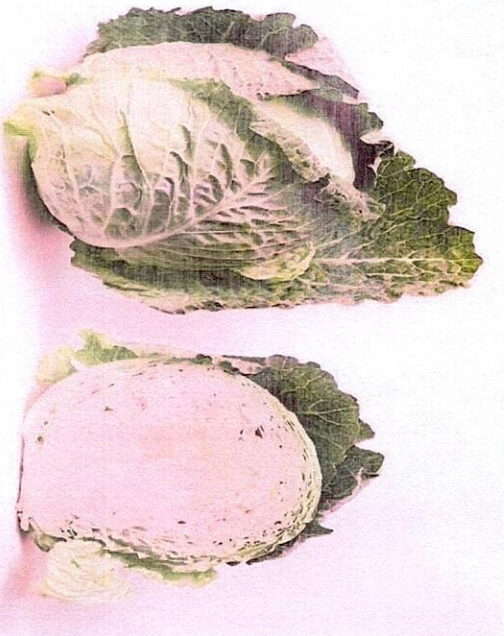
PUMPKIN: *Cucurbita pepo*



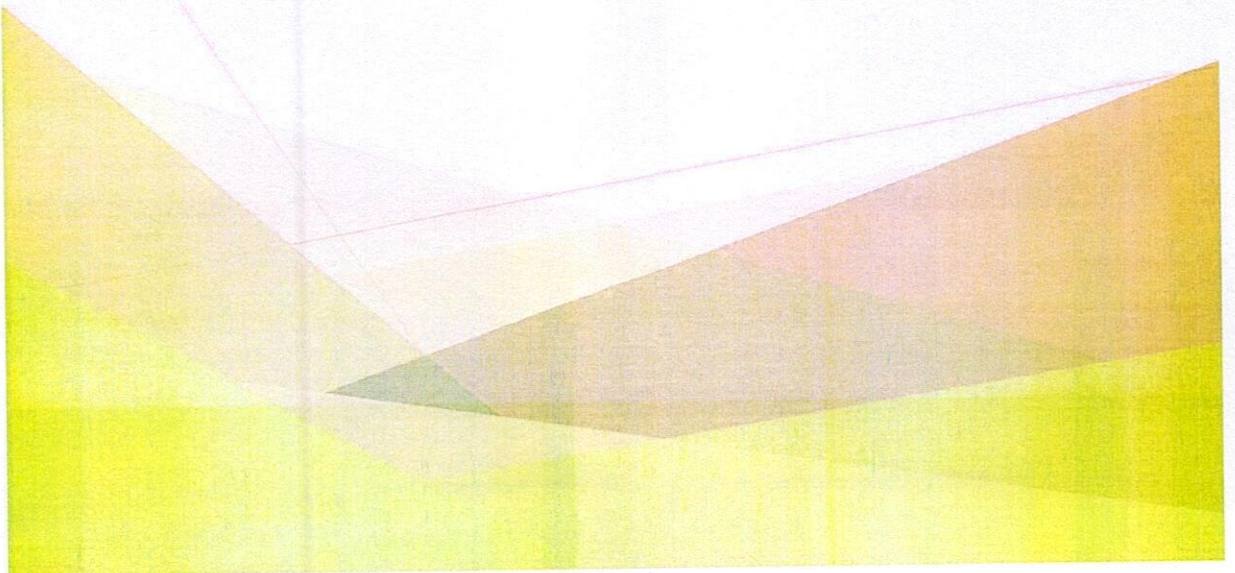
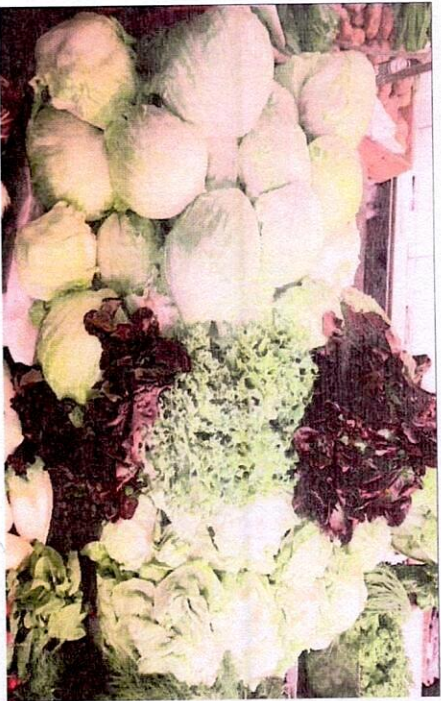
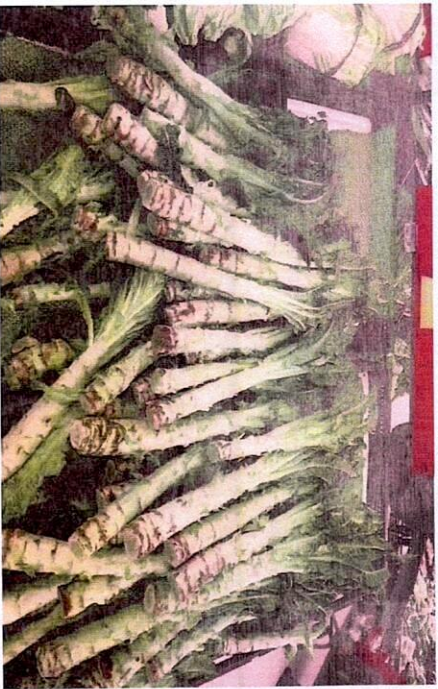
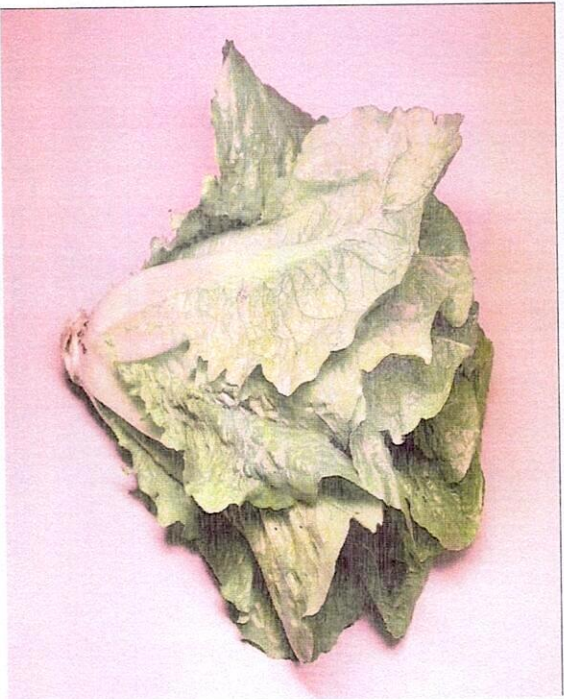
CARROT: *Daucus carota*



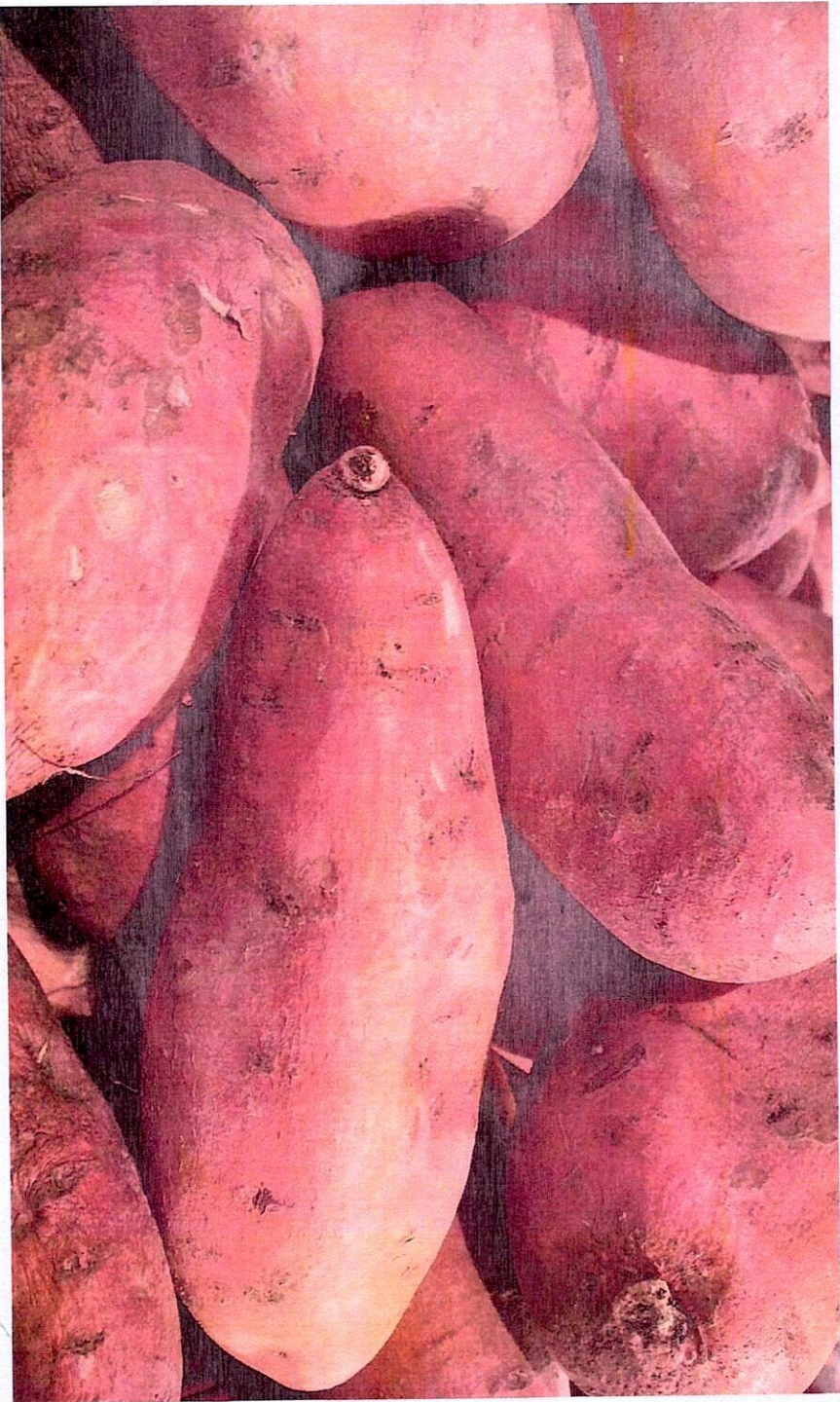
CABBAGE: *Brassica oleracea*



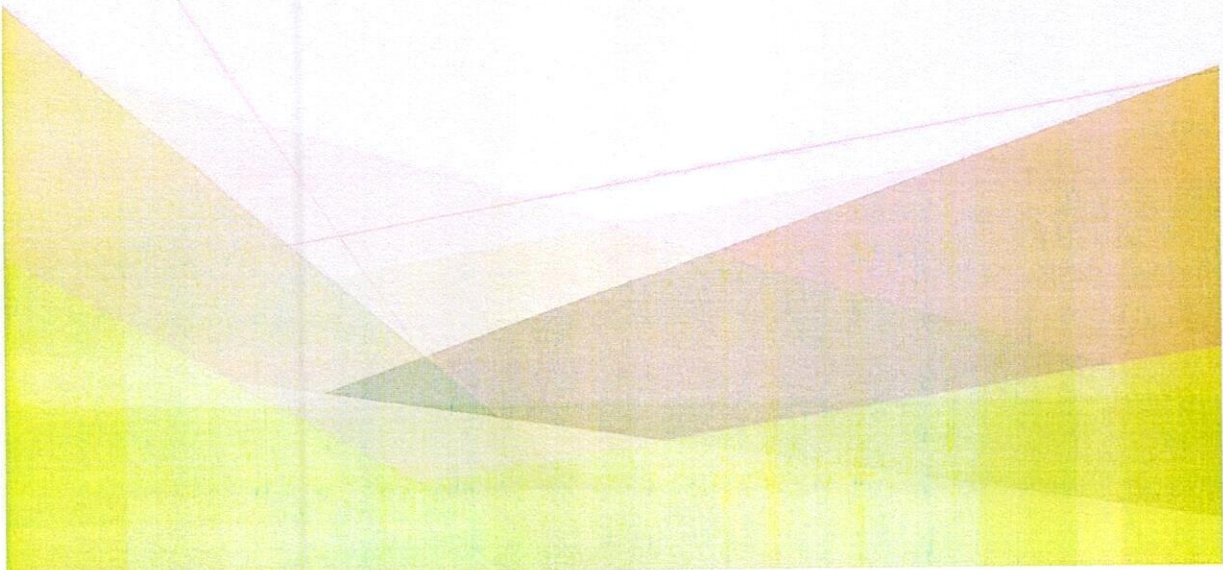
LETTUCE: *Lactuca sativa*



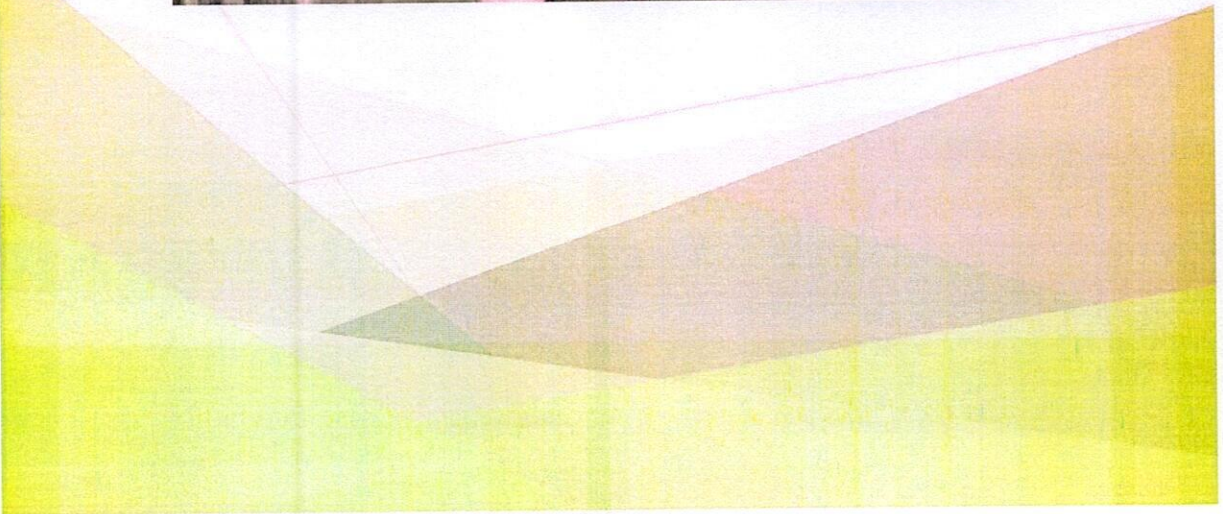
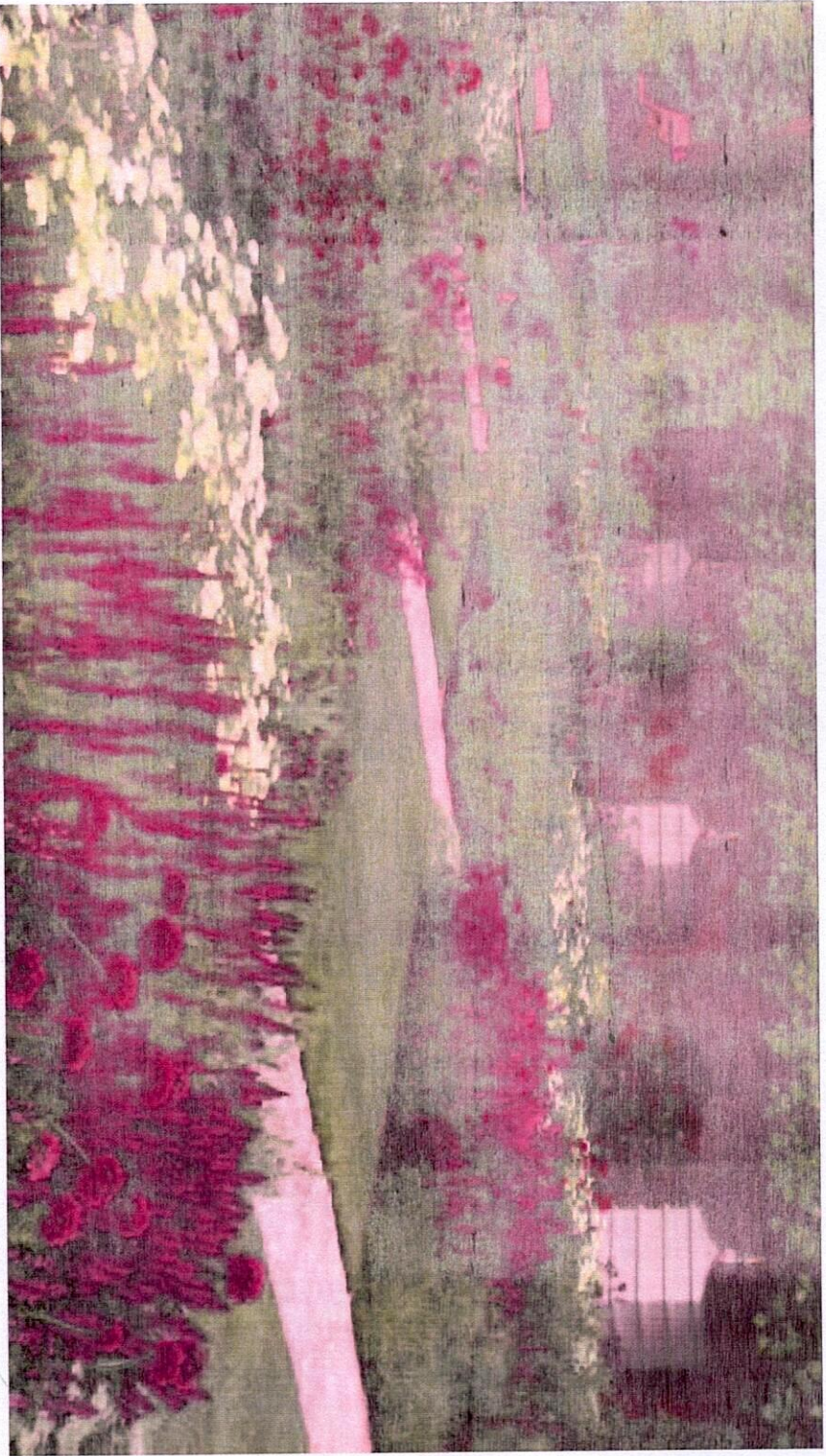
SWEET POTATO: *Ipomoea batatas*



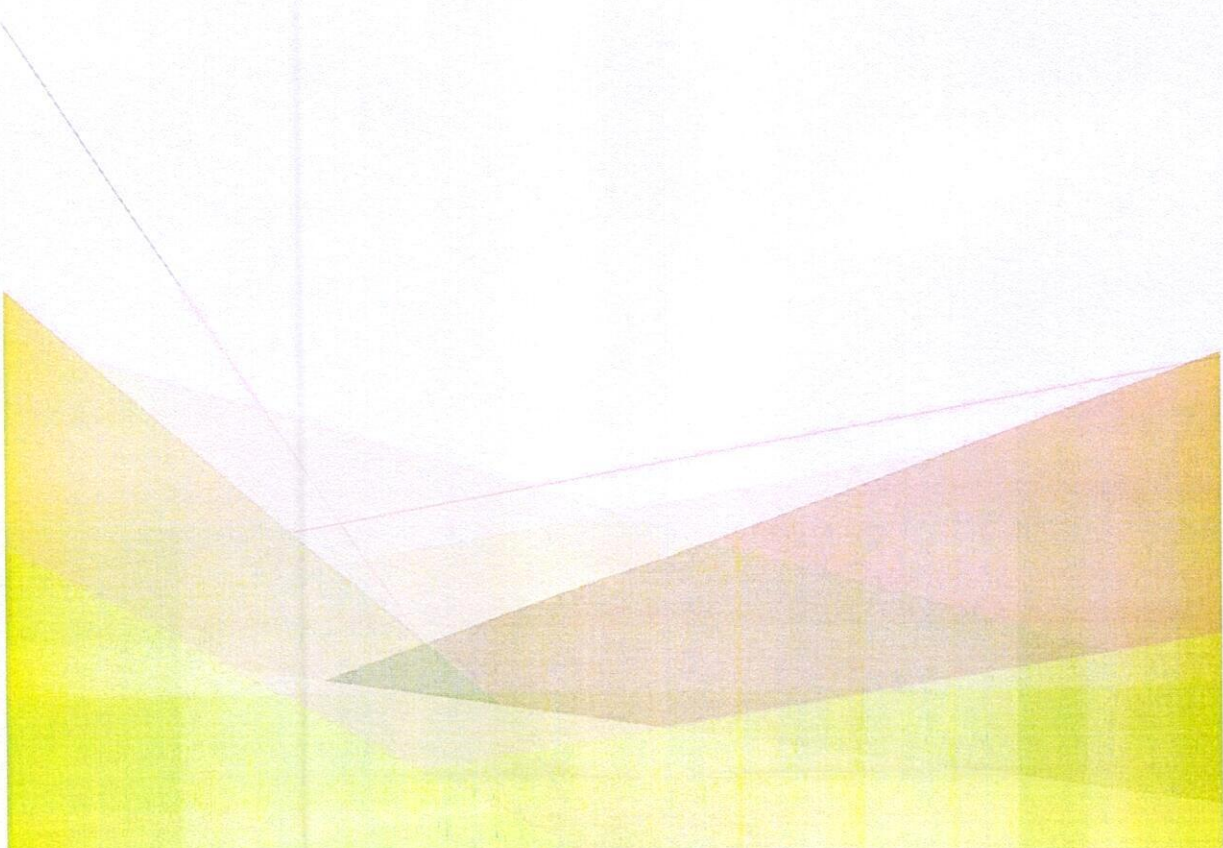
CHILLI PEPPER: *Capsicum annuum*



Pathways



WAY FORWARD

- **Farmers Database**
 - **Comprehensive Soil Map**
 - **Comparative Advantages**
 - **Efficient Water Management Systems**
 - **Germplasm Development**
 - **Research and Development**
 - **Access to Credit**
- 

WAY FORWARD cntd.

- **Commodity Marketing Board**
- **Effective and Efficient Extensions Services**
- **Improved Gender Consideration**
- **Comprehensive Input Delivery**
- **Grazing Reserves (Zero Grazing)**
- **Human resources development (Motivation of youth into Agriculture)**

WAY FORWARD cntd.

- **Emphasis on Value Chain**
- **Re-orientation towards export**
- **Investment Board**
- **Commercialization**
- **The role of the media in achieving National food security**
- **Traditional rulers**
- **Youth and Women inclusion into the agricultural sector**

RENEWED HOPE AGENDA

■ **29th May, 2023**

■ **Presidential Proclamation of National Emergency on Food Security**

■ **Fresh Ministry of Agriculture and Food Security**

■ **Fresh Ministry of Livestock Development**

The Renewed Hope Agenda of President Bola Ahmed Tinubu, GCFR, is committed to advancing the nation's agri-food system through technology and innovation for job creation, youth empowerment and poverty reduction in Nigeria. This stance rhymes with the global economic transformation approach, emphasizing technology and innovation in agri-food system as the key drivers of growth and development and compelling us not to lag.

To this end, my Ministry and the Federal Ministry of Marine and Blue Economy, who is now in charge of fisheries mandate in Nigeria, will work out modality for optimal operation of this fishery technology and innovation to meet its objectives.

- Senator Abubakar Kyari, 2023

a) The Immediate priority actions - ongoing to the end of 2023:

- **Distribute pasture seeds and cuttings for dry season pasture and fodder development for livestock productivity beginning November 2023.**
- **Implementation of the dry season Wheat production Starting in November 2023 as part of the National Agricultural Growth Scheme and Agro Pocket (NAGS-AP) projects funded by the African Development Bank.**

- Senator Abubakar Kyari, 2023

b) Short-term priority actions (2023- 2024)

- **Make significant investment in animals feed-crops, fodder and pasture production as an antidote to the farmers and herders clashes by focusing the development of paddocks, foliage and fodder estates equipped with necessary facilities for all year-round production.**
- **Establish 2 new national gene bank facilities, each for crop and animal respectively to conserve our fast-eroding genetic resources for food security.**

- Senator Abubakar Kyari, 2023

c) Medium term actions - 2024 -2026

■ **Meat, dairy, eggs, fish and other protein from animal sources will receive our special intervention to increase productivity target of annual growth rate of 10% year on year.**

■ **Development of digital/ICT Mobile-based Agro-industry System and E-extension platforms to support farmers through the establishment of the national centres in the 6 agro-ecological zones of Nigeria while the command-and-control office will be here in Abuja.**

- Senator Abubakar Kyari, 2023

d) Long Term actions – 2024 - 2027

- **Reform and remodel the Federal Colleges of Agriculture (FCAs) and the Agricultural and Rural Management Training Institute (ARMTI) to focus on vocational skills development & management training for agriculture and food security issues.**
- **Establishment of Animal Disease Free Zones and of compartmentalization for export of livestock and livestock product.**

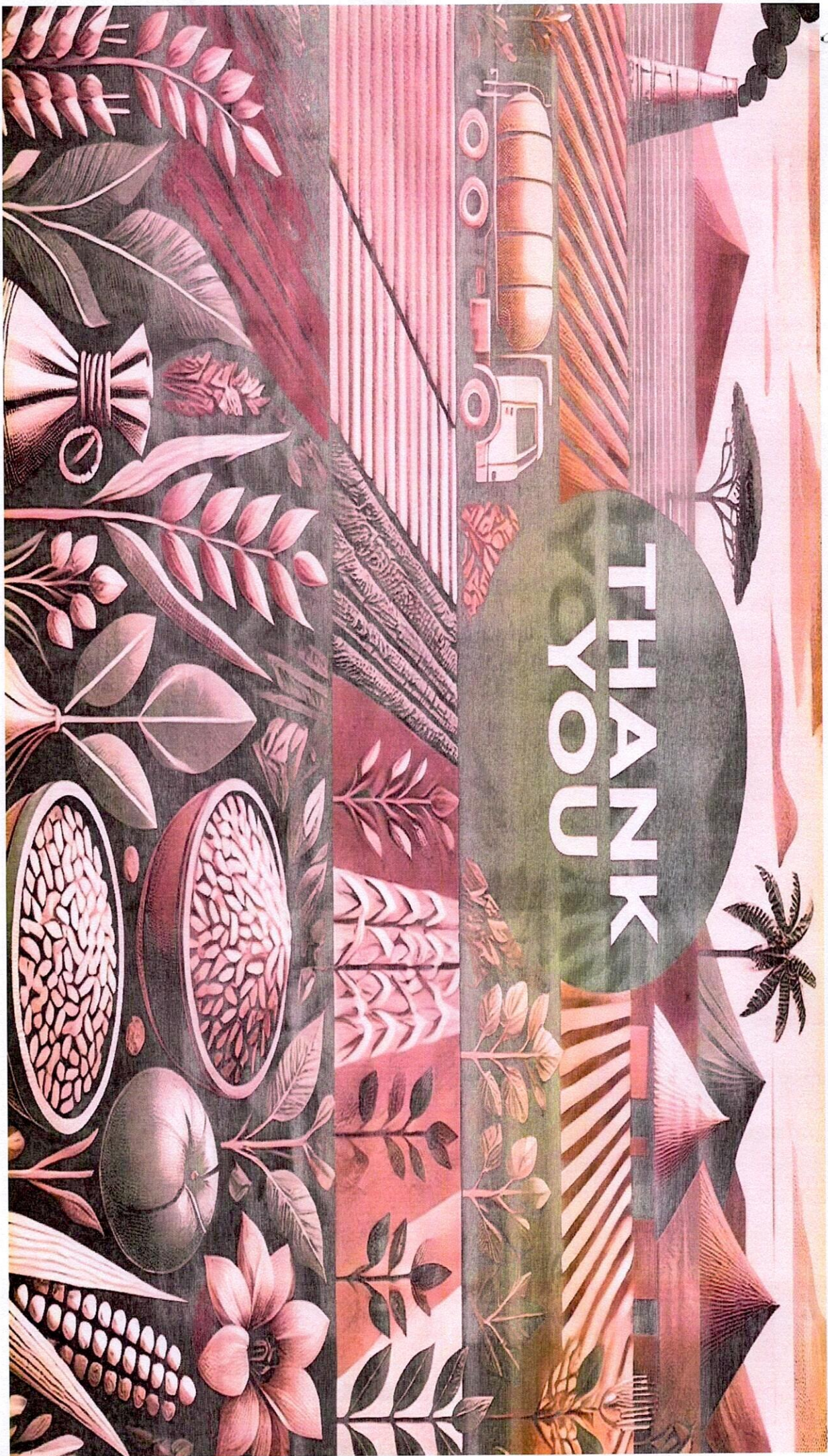
- Senator Abubakar Kyari, 2023

CONCLUSION

I wish to conclude by quoting the Honourable Minister of Agriculture and Food Security, Senator Abubakar Kyari CON.

“Since our assumption of office on 21st August 2023, we have received briefings from all the departments and Agencies with a View to understanding where we are, what is on-going that is delivering the desired results and outcomes, and what needs to give way. Accordingly, we have examined what needs to and what we need to do to re-align existing initiatives and programs that are on course to be in line with the four priorities of the renewed hope agenda that are core to the mandates of the Federal Ministry of Agriculture and Food Security. For the avoidance of doubt, the following Presidential Priorities are our core Agenda and are well aligned with the mandates and operations of our Ministry:

- i. Food Security**
- ii. Economic Growth and Job Creation**
- iii. Poverty Eradication**
- iv. Inclusivity (Youth and Women) and enabling environment for individuals, groups, and the private sector to participate in governance and economic activities”**



THANK
YOU