

## **VISION**

To build a market-driven seed industry for the production and distribution of high quality and improved planting materials that are available, accessible and affordable to all farmers.

## **MISSION**

To transform the Nigerian Seed System into a leading seed industry in Sub-Saharan Africa worthy of generating foreign exchange, key employer of labour and contributing positively to the country's economy.

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## LIST OF ACRONYMS

ADPs	Agricultural Development Programmes
AGRA	Alliance for a Green Revolution in Africa
ATA	Agricultural Transformation Agenda
BS	Breeder Seed
CBOs	Community Based Organization
CS	Certified Seed
CSTL	Central Seed Testing Laboratory
ECOWAS	Economic Community for West Africa States
FAO	Food and Agriculture Organisation (FAO) of the United Nations
FCT	Federal Capital Territory
FS	Foundation Seed
GES	Growth Enhancement Support Scheme
Ha	Hectare
IAR	Institute of Agricultural Research, Zaria
IARCs	International Agricultural Research Centres
IAR&T	Institute of Agricultural Research and Training, Ibadan
ICRISAT	International Crops Research Institute for the Semi- Arid Tropics
IFDC	International Centre for Soil Fertility and Agricultural Development
IITA	International Institute for Tropical Agriculture
Kg	Kilogramme
LCRI	Lake Chad Research Institute, Maiduguri
MT	Metric Tonnes
NAQS	National Agricultural Quarantine Services
NASC	National Agricultural Seeds Council
NARIs	National Agricultural Research Institutes
NCRI	National Cereal Research Institute, Badeggi
NRCRI	National Root Crops Research Institute
NGOs	Non Governmental Organizations
NIRSAL	Nigerian Incentive-Based Risk Sharing System for Agricultural Lending
NCVR&RC	National Crop Variety Registration and Release Committee
SEEDAN	Seed Entrepreneurs of Nigeria
VCU	Value for Cultivation and Use
WARDA	West African Rice Development Association (Africa Rice Centre)
WAAPP	West African Agricultural Productivity Programme
WASP	West Africa Seed Project
WECARD	West and Central African Council for Agricultural Development
YIIFSWA	Yam Improvement for Income and Food Security in West Africa Project

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## **FORWARD/STATEMENT BY THE Ag. DIRECTOR GENERAL**

Improved seeds have been described as the engine of any agricultural revolution and other inputs as the fuel. Access by farmers to these modern inputs is the backbone of the Agricultural Transformation Agenda (ATA) of President Goodluck Ebele Jonathan Administration. Under the Growth Enhancement Support (GES) Scheme 2014, about 6.8 million farmers received 91,801 metric tons of certified seeds representing 44% increase compared to 63,629 metric tons redeemed by 5.8 million farmers in 2013

The Council continued to play its major role in seed production coordination, certification, and promotion of the seed industry in collaboration with the private Seed Companies and other stakeholders. These efforts resulted in an increase in certified seed production from **149,844 MT** in 2013 to **178,039 MT** in 2014 showing an increase of **19** per cent. The quality assurance for these seeds was provided by seed certification and quality control activities from **80,324 Ha** of seed crop fields inspected.

Other outcomes include increase in the number of licensed seed companies from eleven (11) in 2011 to 134 in 2014. Also, a total of 73 companies were able to draw down the sum of **₦ 6 billion** from commercial banks for seed buy back. Global seed companies like Dupont-Pioneer, Syngenta, and Monsanto have decided to invest in the Nigeria seed industry.

Site and facility inspection was conducted to the One Hundred and Eleven (111) prospective seed entrepreneurs and Eighty-Seven (87) of them were finally approved by the National Committee on seed companies' accreditation, and the Honorable Minister, Federal Ministry of Agriculture and Rural Development

The Food and Agriculture Organisation (FAO) Technical Cooperation Project supported the Council in the completion of the review of the Seed Act, Seed Policy and update of the National Seed certification system. Others include assessment of the national and regional seed testing laboratories, and the training of the officials in seed production and quality control.

The National Seed Retreat with the theme *“Transforming the Nigeria Seed Industry to Meeting the Goals of Agricultural Transformation Agenda”* was held from 8<sup>th</sup>-9<sup>th</sup> December, 2014 with stakeholders drawn from the public and private seed industry.

**Dr P.O. Ojo**  
**Ag. Director General**

## EXECUTIVE SUMMARY

This report provides an overview of the activities of the National Agricultural Seeds Council (NASC) in the year 2014 as presented through the implementation of the activities of the various Departments, Sections, and Units of the Council. Highlights of the report are as follows:

## NASC OPERATIONS

Under the ATA-Growth Enhancement Support (GES) scheme during the year, a total of 92,025 metric tonnes (MT) of certified seed was redeemed by about 6.8 million farmers representing 44% increase compared to 63,629 MT redeemed by 5.8 million farmers in 2013.

The production of certified seeds rose from **149,844** MT in 2013 to 178,039 MT in 2014 showing an increase of **19** percent. Similarly, foundation seed production increased from **8,595** MT in 2013 to **9,814** MT during the year. A total of 159 seed entrepreneurs (134 seed companies, 5 NARIs /IARCs and 20 CBOs) participated in production of seeds during the year compared to 105 recorded in year 2013.

A total of **80,324** Ha of seed crops-Breeder Seed (BS), Foundation Seed (FS) and Certified Seed (CS) fields was inspected of which **79,659** Ha (99 %) was approved for certification. This was achieved through regular seed field inspection visits by the Council certification officers, monitoring team visits from the Headquarter for spot-checking the total area under seed production and quality of seed produced.

The Council during the year facilitated 73 seed companies to access loans of about ~~N~~6 billion from commercial banks through the Nigerian Incentive-Based Risk Sharing System for Agricultural Lending (NIRSAL) for seed buy back. Other outcomes include increase in the number of licensed seed companies from eleven (**11**) in 2011 to **134** in 2014. Global seed companies like Dupont-Pioneer, Syngenta, and Monsanto have decided to invest in the Nigeria Seeds Industry.

Eighty Seven (87) out One Hundred and Eleven seed entrepreneurs that applied for accreditation were approved by the Honourable Minister of Agriculture and Rural Development for issuance of license for operation.

A total of 3,022 seed samples submitted for fourteen (14) seed crops were tested and evaluated for minimum seed standards in the central seed testing laboratory (CSTL), Sheda and six zonal laboratories nationwide. A total of **2,661** samples (88%) met the minimum seed standards, while **361** (12%) samples failed to meet up with the minimum seed standard.

During the period under review (2014), a total of **6,987,382** seed certification tags comprising of **12,539** for breeder seeds, **132,414** for foundation seeds, and **6,842,429** for certified seeds were sold to seed producers nationwide.

The National Committee on Naming, Registration and Release of Crop Varieties, Livestock Breeds and Fisheries approved for registration and release eleven (II) seed crop varieties;

During the year, four (4) demonstration sites were established in four (4) States nationwide: South West/Oyo-Ibadan; North West/Kaduna-Zaria; North East/Gombe-Akko; and North Central/FCT-Sheda-Kwali to demonstrate the superiority of hybrids over open pollinated maize varieties as well as the superiority of other varieties over the local checks to enhance lateral spread and improve adoption rates.

To complement the effort of regular seed certification/field inspection officers, 100 National Youth Corp members with discipline in Agriculture were trained in concepts, procedure and practice of seed field inspection at all the six regional offices.

The National Seed Retreat with the theme *“Transforming the Nigeria Seed Industry to Meeting the Goals of Agricultural Transformation Agenda”* was held from 8<sup>th</sup> - 9<sup>th</sup> December, 2014 at Chelsea Hotel, Abuja” to review the status of the national seed industry, identify challenges relating to varietal development, seed production, processing, seed quality assurances, marketing and financing of the seed sub-sector with a view to charting the way forward. 283 participants drawn from the public and private sector were in attendance.

The sum of **₦ 230, 562,091.00** (Two Hundred and Thirty Million, Five Hundred and Sixty Two Thousand and Ninety One Naira only) was realized as Internally Generated Revenue during the year as against **₦212,721,000.00** (Two Hundred Million, Seven Hundred and Twenty One Thousand Naira) generated in 2013.



## **1.0 INTRODUCTION**

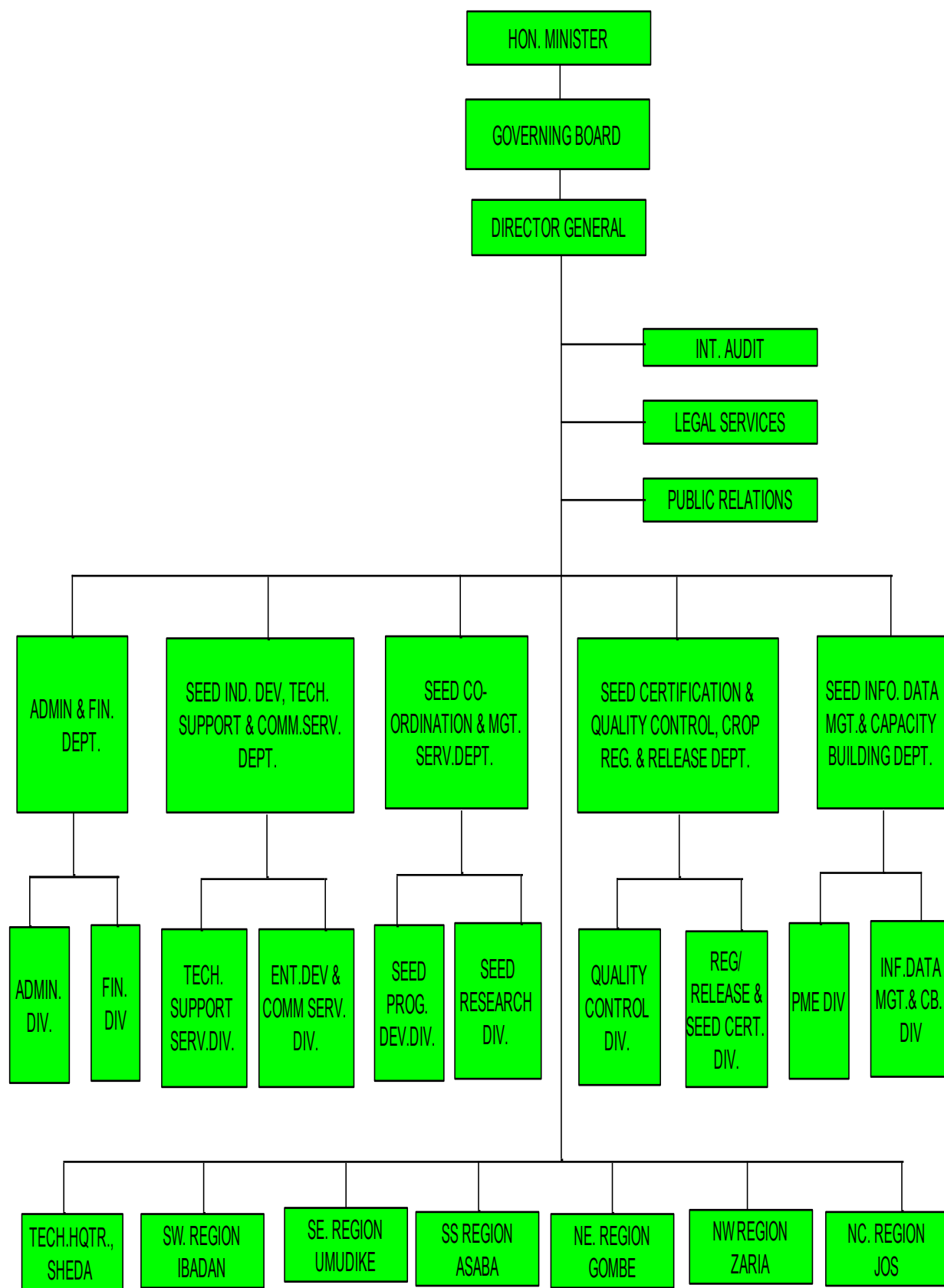
The National Agricultural Seeds Council (NASC) was established in December, 2007 as an Agency of the Federal Ministry of Agriculture and Rural Development in line with the provisions of National Agricultural Seeds Act No. 72 of 1992.

The NASC is charged with the overall development and regulation of the national seed industry. The functions of the Council include:

- Analyse and formulate programmes, policies and actions regarding seed development and the seed industry in general, including research on issues relating to seed testing, registration, release, production, marketing, distribution, certification, quality control, supply and use of seeds in Nigeria, importation and exportation of seeds.
- Design improved management systems and procedures relating to the administration of seed activity.
- Advise the Federal Government on the organization, management and financing of seed programmes.
- Analyse the market and prices of seeds.
- Advise the national research system on the changing pattern of seed demand and farmers' needs.
- Monitor and evaluate the achievements of the national seed system and recommend improvement.
- Encourage the establishment in Nigeria of seed companies for the purpose of carrying out research, production, processing and marketing of seeds; and
- Regulate the Seed Industry in Nigeria.

## **2.0 ORGANISATION AND MANAGEMENT**

The organizational structure of the Council as shown in figure 1 was maintained during the year. However, the Governing Board of the Council dissolved in 2011 by the Federal Government was yet to be constituted.



**Figure 1: Organogram of National Agricultural Seeds Council**

## 2.1.0 THE SEED CO-ORDINATION AND MANAGEMENT SERVICES DEPARTMENT

The Seed Coordination and Management Services Department (SCMSD) has the responsibility for coordinating national seed production networks such that improved seeds are made available to farmers to increase productivity and enhance their standards of living. The function of the department involves seeds research and coordination. This is done with stakeholders' participation towards achieving the national requirements for all classes of seeds and seedlings recognized in the national seed system i.e. Breeder, Foundation and Certified seeds

### 2.1.1 ATA: Growth Enhancement Support Scheme (GES) - Seeds

Under GES, the Council facilitated 73 seed companies to access about ~~₦~~6 billion loans for seed buy-back from their outgrowers in 2014 compared to ~~₦~~3.6 billion in 2013. As a result, 92,025 MT of certified seed amounting to ~~₦~~ 20,176,964,400 was redeemed by about 6.8 million farmers in 2014 representing 44 % increase compared to 63,629 MT redeemed by 5.8 million farmers in 2013. The quantity and value of seeds redeemed are shown in the table below

**Table 1: ATA –GES seeds redemption by type and year**

s/n	Year	2012		2013		2014	
	Seed type	(MT)	Value (₦)	(MT)	Value (₦)	MT	Value (₦)
1.1	Maize Hybrid	1,814	399,097,600	-	-	-	-
1.2	Maize OPVs	2,374	427,320,000	-	-	-	-
1.3	Maize Total	4,188	826,417,600	14,698	2,939,600,000	49,103	9,820,600,000
2	Rice	20,120	5,030,000,000	43,800	10,950,000,000	38,701	9,675,250,000
3	Sorghum	504	90,720,000	349	76,780,000	1148	252,560,000
4	Soybean			1,446	289,200,000	747	149,456,000
5	Groundnut			34	22,100,000		
6	Cotton	1,513	181,611,600	3,302	396,240,000	2,326	279,098,400
	Total	26,325	6,128,749,200	63,629	14,673,920,000	92,025	20,176,964,400

**Source: NASC**

GES Seed price for 2013/2014: Maize: ~~₦~~200/Kg; Rice: ~~₦~~ 250/Kg; Sorghum: ~~₦~~ 220/Kg; Soybean: ~~₦~~ 200/Kg; Groundnut: ~~₦~~ 650/Kg; and Cotton: ~~₦~~ 120/Kg.

### 2.1.2 Foundation seed procurement and distribution under the ATA

#### 2.1.2 Rice Foundation Seed

The Department coordinated the procurement (by way of Federal Govt. Contract) of 826.02 MT of Foundation Seeds and 3000 Kg of Breeder Seeds which were sold to Seed companies for multiplication into Certified and Foundation Seeds respectively.

**Table 2: Rice foundation seed procurement, 2014 (MT)**

S/No.	Source	Variety	Quantity (MT)	Delivery
1	NCRI	(FARO 44 =25MT, FARO 52 =25MT)	50	Zaria
2	NCRI	(FARO 44 =25MT, FARO 52=25MT)	50	Zaria
3	NCRI	FARO 44=66MT	66	Zaria
4	Romarey Venture LTD		207.82	Jos
5	Romarey Venture LTD		145.58	Sheda
6	Romarey Venture LTD		59.2	Jos
7	Romarey Venture LTD		217.2	Zaria
8	Carry Over, 2013		30.22	
	Total		<b>826.02</b>	

A total of 587.36 MT of Rice Foundation Seeds was sold to Seed Companies leaving a balance of 238.66 MT carried over into 2015 for continued distribution.

**Table 3: Foundation seed procurement, 2014 (MT)**

S/N	Crop	Source	Quantity received	Quantity distributed	Carry Over
1	Maize	SAMLAK/IAR&T	42.03	39.18	2.85
2	Maize	IITA	65.45	30.2	34.5
3	Soybean	IITA	24.8	3.8	21

**Table 4: Breeder seed procurement, 2014 (Kg)**

S/N	Crop	Source	Quantity received	Quantity distributed	Carry Over
1	Rice	NCRI	30,000	22,630	7,370
2	Maize	SAMLAK	21,500	10,046	11,004

**Table 5: Foundation seed production by crop and year (MT)**

S/N	Seed crop	2010	2011	2012	2013	2014
1	Maize	96	213	680	1,117	3,753
2	Rice	328	229	298	1,388	2,705
3	Sorghum	10	25	16	74	1,282
4	Millet	10	8	9	31	12
5	Wheat	-	-	-	-	58
5	Cowpea	27	42	34	26	32
6	Soybean	8	2	47	3,276	400
7	Groundnut	23	38	19	29	17
8	Cotton	7	25	18	2,655	1,543
9	Sesame	2	4		-	4
	Total	511	588	1,121	8,595	9,806

**Source: NASC**

### 2.1.3 WEST AFRICAN AGRICULTURAL PRODUCTIVITY PROGRAMME (WAAPP) SEED DISTRIBUTION INITIATIVE

WAAPP is a World Bank funded programme set up to increase agricultural productivity in Africa. The WAAPP Seed programme is an intervention set up to try bridging the gap in agricultural seeds supply. In 2014 WAAPP contracted mandate Research Institute to produce Breeder and Foundation seeds of rice, maize and sorghum for distribution to Seed companies at 40% price Support. The Department coordinated the distribution of these seeds to the various seed companies. Below is the summary of seeds distributed under the WAAPP Seed intervention programme.

**Table 6: WAAPP Foundation seed distribution initiative, 2014 (MT)**

S/No	Crop	Source	Quantity received	Quantity distributed	Carry Over
1	Rice	WAAPP	10.815	10.815	0
			46.175 (2.965 was 2013		
2	Maize	WAAPP	carry over)	3.6	42.575
			8.34 (1.14 was 2013		
3	Sorghum	WAAPP	carry over)	1.05	7.29

### 2.1.4 Collaboration with Yam Improvement for Income and Food Security in West Africa (YIIFSWA), 2014

#### Introduction

The Council signed a sub-agreement with the International Institute for Tropical Agriculture (IITA) in February, 2013 to among other objectives:

- Ensure the production of Foundation Seed of Yam.
- Assist in identification and selection of seed yam farmers.
- Training in Quality Declared Seed Yam (QDSY) production and marketing,
- Certify and register high quality seed yam producers in Nigeria,
- Facilitate and ensure the certification of breeder, foundation and certified (commercial) seed yam produced by NARIs, National Organizations, private seed producers and seed entrepreneurs.

The progress made in the implementation of the sub-agreement is presented below:

- Identified and selected three registered Seed Companies (two within FCT and one in Benue State) to participate in the YIIFSWA project to produce seed yam.
- Organized first and second phase training for Commercial seed yam producers.
- Training in Cost Effective Foundation Seed Yam production using Novel High Ratio Propagation Technologies.
- Supervisory visit to FS Seed Yam plots at Kilankwa and Kuje by YIIFSWA Team
- Certification services to Seed Yam producing Agencies multiplying seed yam of which about 4.478 Hectares of Seed Yam fields were inspected in the 2014 Season.

- The yield obtained from six (6) seed yam varieties received from NRCRI is as indicated below:

**Table 7: YIIFSWA- Seed yam production, 2014**

Variety	Breeder Seed Yam Collected	No of Setts at Planting	Yield (No of Minitubers)	Yield (Kg)	Remarks
TDr 89/02665	100	165	162	23.5	(FS-I)
TDr 89/02475	10	20	18	23.5	(FS-I)
TDa 98/01168	500	700	692	207	(FS-I)
TDa 98/01166	500	1108	1100	374	(FS-I)
TDr 89/02461	100	100	95	92	(FS-I)
TDr 89/02565	80	160	150	29	(FS-I)
<b>Sub-Total</b>			<b>2,217</b>		
TDr 89/02665	-	245	178	60	(FS-II)
TDr 89/02565	-	250	232	93	(FS-II)
TDr 89/02677	-	263	254	82	(FS-II)
<b>Sub-Total</b>			<b>664</b>		(FS)

### 2.1.5 Field Research

Research on “the comparison of the yield potential of different hybrids and open pollinated varieties (OPVs) of Maize (*Zea mays* L)” in the North Western region of Nigeria” was replicated at the research field of IAR/ABU Zaria. The objective of this study is to identify the variety of maize that performs better among the hybrids and open pollinated varieties. Six (6) maize varieties were used for the experiment and their details are tabulated below:

**Table 8: Maize variety trial list, 2014**

S/NO	Crop	Variety	Source	Type
1	Maize	NG-Samaru	Nagari seeds	Hyb.
2	Maize	Jo-195	Da-Allgreen	Hyb.
3	Maize	SDM 1	Maslaha	Hyb.
4	Maize	MR-White	Manoma	Hyb.
5	Maize	SAMMAZ 14	IAR	Opv.
6	Maize	SAMMAZ 34	IAR	Opv.

The experiment was laid on a Complete Randomized Block Design (CRBD) with four replication of treatment. All the agronomical practices were strictly adhered to and all necessary data were collected and recorded and after harvest all data was subjected to a statistical analysis using SAS softwares (Version 2002). Means were compared using standard error (SE) and the result is presented below:

**Table 9: Treatment response on growth and yield parameters to different maize (*Zea mays* L.) hybrids and open pollinated varieties.**

Parameters	TRT A: NG SAMARU	TRT B: JO-195	TRT C: SDM 1	TRT D: MR.WHITE	TRT E: SAMMAZ 14	TRT F: SAMMAZ34	SE
Plant height @ harvest (cm)	251.94 <sup>a</sup>	226.76 <sup>e</sup>	246.72 <sup>b</sup>	254.86 <sup>a</sup>	241.87 <sup>c</sup>	238.29 <sup>f</sup>	3.62
No of cob/plant	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Cob weight/plant (g)	167.86 <sup>d</sup>	178.30 <sup>c</sup>	213.58 <sup>a</sup>	190.60 <sup>b</sup>	192.65 <sup>b</sup>	180.99 <sup>c</sup>	6.15
Seed weight/plant (g)	110.20 <sup>cd</sup>	114.74 <sup>c</sup>	149.15 <sup>a</sup>	133.90 <sup>b</sup>	114.79 <sup>c</sup>	113.39 <sup>c</sup>	3.79
Cob length (cm)	16.62 <sup>b</sup>	17.33 <sup>a</sup>	15.52 <sup>e</sup>	16.10 <sup>d</sup>	15.28 <sup>e</sup>	16.42 <sup>c</sup>	0.31
Cob diameter (cm)	4.21 <sup>d</sup>	4.36 <sup>b</sup>	4.42 <sup>a</sup>	4.24 <sup>c</sup>	4.23 <sup>cd</sup>	4.29 <sup>c</sup>	0.05
Kernel row length (cm)	13.59 <sup>cd</sup>	13.83 <sup>c</sup>	14.67 <sup>a</sup>	14.83 <sup>a</sup>	14.33 <sup>b</sup>	14.00 <sup>c</sup>	0.25
Hundred seed weight (g)	21.47 <sup>c</sup>	24.33 <sup>a</sup>	23.92 <sup>a</sup>	22.91 <sup>b</sup>	22.58 <sup>b</sup>	20.58 <sup>c</sup>	0.94
Threshing percentage (%)	66.78 <sup>b</sup>	65.67 <sup>b</sup>	70.29 <sup>a</sup>	70.26 <sup>a</sup>	60.32 <sup>d</sup>	63.88 <sup>c</sup>	1.46
Yield/Ha (Kg/Ha)	3632.40 <sup>d</sup>	3874.70 <sup>c</sup>	5210.20 <sup>a</sup>	4396.90 <sup>b</sup>	3877.30 <sup>c</sup>	3802.70 <sup>c</sup>	114.86
Stover dry matter (Kg/Ha)	55266.0 <sup>c</sup>	54757 <sup>d</sup>	56746 <sup>a</sup>	54394 <sup>d</sup>	55810 <sup>b</sup>	54062 <sup>e</sup>	379.34

abcdef: Means within row with different superscripts differ significantly (P<0.05)

From the above results, the trend still favors SDM 1 from Maslaha Seeds out yielding all the hybrids and OPV's.

### 2.1.6 Seed Increase

A total of 3.2MT of FS of -DT-STR-Y-SYN-2 which is a newly released Maize variety was produced at U/rimi and Shika.

### 2.1.7 Meeting/Collaboration

The Department participated in the following meetings/activities in the year:

- Coalition for Africa Rice Development (CARD) on 2<sup>nd</sup> – 5<sup>th</sup> June 2014, 17<sup>th</sup> July 2014 and 24<sup>th</sup> – 28<sup>th</sup> November 2014.
- National Biosafety Committee meetings.
- NEPAD Business Forum – 17<sup>th</sup> – 18<sup>th</sup> Nov., 2014.
- Open Forum on Agricultural Biotechnology (OFAB) in Africa
- Cotton Value Chain Forum Organized by Mossanto Company in collaboration with National Cotton Association of Nigeria (NACOTAN) – 16<sup>th</sup> December, 2014.
- WAAP/ IPR Committee Meeting.

## **2.2.0 SEED CERTIFICATION, QUALITY CONTROL, CROP REGISTRATION AND RELEASE DEPARTMENT (SCQCCR&RD)**

The Department has statutory responsibility for the quality assurances and certification of breeder, foundation and certified seeds; effective quality control of all classes of traded seeds; and facilitation of prompt registration and release of new crop varieties. In order to carry out these activities effectively, Seed Certification Officers are located in each State of the Federation including the FCT. In addition, seed testing laboratories exist in the six zonal offices for testing the quality of seed lots intended for sale to farmers. All these have been re-aligned to key into the present administration's Agricultural Transformation Agenda.

### **2.2.1 Field Inspection**

During the year, a total of 80,324 Ha of seed crops-(BS, FS &CS) fields was inspected of which 79,659 Ha (99 %) was approved for certification, while 664 Ha (1 %) failed the minimum field standards. This was achieved through three minimum seed field inspection visits by the Council's certification officers; headquarter monitoring team visits for spot-checking at least 10 % of the total area under seed production. In addition to spot-checking the established seed fields, a joint monitoring and verification of source of planting materials was carried out nationwide. (See table 10-12 and figure 2)



**Field inspection by NASC Certification officials**



**Table 10: Seed crop field inspection by type and class, 2014 (Ha)**

S/N	Crop	Breeder	Foundation	Certified	Total
1	Maize	43	1,570	31,260	32,873
2	Rice	2	931	30,500	31,433
3	Sorghum	15	675	1,506	2,195
4	Millet	2	12	357	370
5	Wheat	3	39	113	154
6	Cowpea	1	27	81	109
7	Soybean	10	332	1,056	1,398
8	Groundnut	9	11	257	277
9	Sesame	4	6	157	166
10	Cotton	18	1,928	9,403	11,349
	<b>Total</b>	<b>105</b>	<b>5,530</b>	<b>74,689</b>	<b>80,324</b>

Source: NASC

**Table 11: Seed crop field inspection by type and source, 2014 (Ha)**

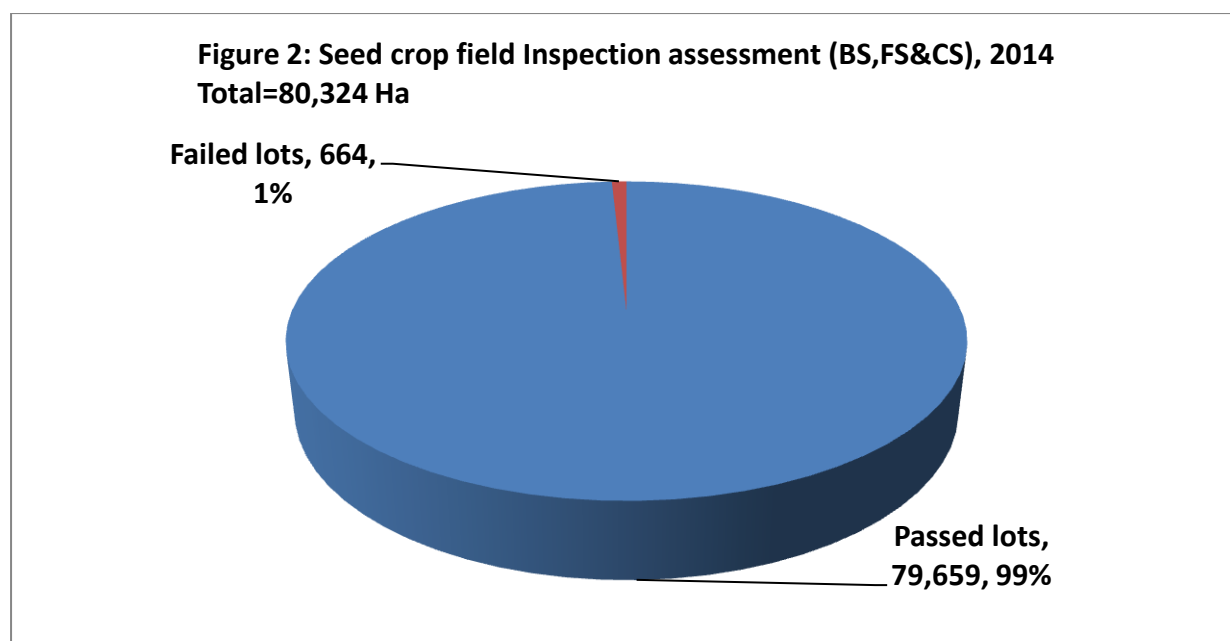
S/N	Source	Season	Maize	Rice	Sorghum	Millet	Wheat	Cowpea	Soybean	Groundnut	Sesame	Cotton	Total
1	Companies	Dry	1,135	8,500	50		113		50		20		9,868
		Wet	30,841	22,672	2,000	277		76	1,027	239	137	11,320	68,588
	<b>Total</b>		<b>31,977</b>	<b>31,172</b>	<b>2,050</b>	<b>277</b>	<b>113</b>	<b>76</b>	<b>1,077</b>	<b>239</b>	<b>157</b>	<b>11,320</b>	<b>78,457</b>
2	NARIs	Dry		19			41						60
		Wet	410	133	45	14		26	274	20	9	29	959
	<b>Total</b>		<b>410</b>	<b>152</b>	<b>45</b>	<b>14</b>	<b>41</b>	<b>26</b>	<b>274</b>	<b>20</b>	<b>9</b>	<b>29</b>	<b>1,019</b>
3	CBOs	Dry		40									40
		Wet	486	70	101	80		7	47	18			808
	<b>Total</b>		<b>486</b>	<b>110</b>	<b>101</b>	<b>80</b>		<b>7</b>	<b>47</b>	<b>18</b>			<b>848</b>
	<b>G/Total</b>		<b>32,873</b>	<b>31,433</b>	<b>2,195</b>	<b>370</b>	<b>154</b>	<b>109</b>	<b>1,398</b>	<b>277</b>	<b>166</b>	<b>11,349</b>	<b>80,324</b>

Source: NASC

**Table 12: Field inspection assessment by type, 2014 (Ha)**

S/N	Assessment	Maize	Rice	Sorghum	Millet	Wheat	Cowpea	Soybean	Groundnut	Sesame	Cotton	Total
1	Fail	466	179	9				10	1			664
2	Pass	32,407	31,254	2,187	370	154	109	1,388	276	166	11,349	79,659
	<b>Total</b>	<b>32,873</b>	<b>31,433</b>	<b>2,195</b>	<b>370</b>	<b>154</b>	<b>109</b>	<b>1,398</b>	<b>277</b>	<b>166</b>	<b>11,349</b>	<b>80,324</b>

Source: NASC



### **2.2.2 Accreditation of Seed Entrepreneurs**

Eighty Seven (87) out One Hundred and Eleven seed entrepreneurs that applied for accreditation were approved by the Honourable Minister of Agriculture and Rural Development for issuance of license for operation.

### **2.2.3 Seed Importation**

In the year 2014, two companies were given approval to import seed of crop varieties for research and development purposes as listed below.

**Table 13: Seed importation list, 2014**

S/N	Company	Crop imported	No of variety	Date approved
1	Sygenta Nig. Ltd	Maize	12	21-02-2014
2	Terreatiga Nig. Ltd	Maize	3	20-03-2014
3	Sygenta Nig. Ltd	Rice	4	07-10-2014
4	Sygenta Nig. Ltd	Potato	7	19-03-2014
5	Sygenta Nig. Ltd	Sorghum	4	19-03-2014

### **2.2.4 Varietal Registration and Release**

During the year, the National Committee on naming, registration and release of crop varieties, livestock breeds and fisheries approved for registration and release eleven (II) crop varieties. Details are as in pictures and table 14 below



Samples of Seed crop varieties recently registered and released by the NCVR&RC

Table 14: List of the crop varieties released and registered, 2014.

S/N	Crop	Variety	Nominating Institute	Outstanding characteristics	Year of release
1	Rice	FARO 63	NCRI Badegi	Early maturity and high yielding	2014
2	Sorghum	Pradhan ( hybrid)	IAR Zaria	White and bold grain	2014
3	Sorghum	MLSH 296 gold	IAR Zaria	High grain yield	2014
4	Sorghum	MLSH 151	IAR Zaria	Medium bold, round green	2014
5	Irish Potato	Marabel	NRCRI-Umudike	Extra early, high yield. High dry matter. High no of marketable tubers	2014
6	Wheat	LACRI WHIT-5	LCRI-Maiduguri	High yield, good baking quality	2014
7	Wheat	LACRI WHIT-6	LCRI-Maiduguri	Early maturity, high yield, good baking quality	2014
8	Maize	Sammaz 41	IAR-Zaria	Early maturity, high grain yield, efficient soil nitrogen utilization	2014
9	Maize	Sammaz 42	IAR-Zaria	Early maturity, high grain yield, low soil & tolerant	2014
10	Soybean	NCRISOY-1	NCRI-Badegi	Extra earl, promiscuous nodulation, resistance to rust, cercospora leaf spot and bacterial pustuke	2014
11	Soybean	NCRISOY-2	NCRI-Badegi	High yield, promiscuous nodulation, resistance to rust, cercospora leaf spot, suitable for mechanization	2014

### 2.2.5 Seed Sampling and Testing

To ensure that seeds made available to farmers by seed producers are of the highest quality and guarantee increased crop productivity, a total of 3,022 seed samples submitted for fourteen (14) seed crops were tested and evaluated for minimum seed standards in the central seed testing laboratory (CSTL), Sheda and six zonal laboratories nationwide. A total of 2,661 samples (88%) met the minimum seed standards, while 361 (12%) samples failed to meet up with the minimum seed standard. Details are as in tables 15 and 16.

**Table 15: Seed Testing Laboratory by location, 2014**

S/n	Seed Testing Laboratory	Total Seed Lots tested	Number of passed Seed lot	Number of failed seed lots
1	Central Seed Testing Laboratory, Sheda-Kwali	773	711	62
2	NASC, Zaria Laboratory	1,427	1,307	120
3	NASC, Ibadan Laboratory	115	89	26
4	NASC, Umudike Laboratory	147	67	80
5	NASC, Asaba Laboratory	81	70	11
6	NASC, Jos Laboratory	199	140	59
7	NASC, Gombe Laboratory	280	277	3
<b>Total</b>		<b>3,022</b>	<b>2,661</b>	<b>361</b>

Source: NASC

**Table 16: Seed testing assessment by type, 2014**

S/n	Seed crop	Total seed lot	Passed seed lot (no)	Passed seed lot (%)	failed seed lot (no)	Failed seed lot (%)
1	Cotton	128	125	98	3	2
2	Cowpea	8	8	100	0	0
3	Maize	945	858	91	87	9
4	Rice	1794	1558	87	236	13
5	Soybean	87	55	63	32	37
6	Sorghum	31	30	97	1	3
7	Tomato	18	18	100	0	0
8	Hot Pepper	1	1	100	0	0
9	Sweet Pepper	2	2	100	0	0
10	Cabbage	2	2	100	0	0
11	Carrot	3	2	67	1	33
12	Celery	1	0	0	1	100
13	Cucumber	1	1	100	0	0
14	Egg plant	1	1	100	0	0
<b>Total</b>		<b>3,022</b>	<b>2,661</b>	<b>88</b>	<b>361</b>	<b>12</b>

Source: NASC

Table 16 shows that the proportion of seed lots that passed the national minimum seed standard increases across the year. This ranged between 80% in 2012

to 88% in 2014 with percent increment of 9%. While the proportion of failed seed lot decreases from 18% in 2011 to 12% in 2014 with percent reduction of 35%. The increment recorded for the proportion of passed seed lots

#### **2.2.6 Training for NYSC (Corp members) in seed certification and quality control**

To complement the effort of regular seed certification/field inspection officers, a total of 100 Corp members with relevant discipline in Agriculture were trained in concepts, procedure and practices of seed field inspection at all the NASC six regional offices nationwide. The training was attended by all the regular seed certification officers, internal quality control officers of seed companies and seed analysts. The training entails class work and practical training sessions in all the major traded, registered and release varieties.

#### **2.2.7 Sale of Certification Tags**

During the period under review (2014), a total of **6,987,382** seed certification tags comprising of **12,539** for breeder seeds, **132,414** for foundation seeds, and **6,842,429** for certified seeds were sold to seed producers nationwide;



### **2.3.0 THE SEED INDUSTRY DEVELOPMENT, TECHINICAL SUPPORT AND COMMERCIAL SERVICES DEPARTMENT (SITSCS)**

The SITSCS is responsible for the development and promotion of a viable seed industry with greater private sector participation through the under listed activities:

#### **2.3.1 Maize Hybrid/Open Pollinated Varieties and other Crop varieties Highway Demonstration trial**

During the year, four (4) demonstration sites were established in four (4) States nationwide: South West-Ibadan; North West- Zaria; North East-Akko; and North Central-Sheda-Kwali to showcase the superiority of hybrids over open pollinated maize varieties as well as the superiority of improved varieties of other crops over the local checks to enhance lateral spread and improve adoption rates. Six (6) Seed Companies namely: Premier; Maslaha; Savannah; Dupont Pioneer; Samlak and SeedCo nominated and supplied the under listed varieties for the promotional programme as detailed in table 17.



The Director General, NASC, Dr. P.O.Ojo conducting, the immediate past Permanent Secretary, FMA&RD, Mrs Ibukun Odusote round the hybrid maize demonstration plots at the farmers field day in Sheda, FCT



Stakeholders in attendance during field day held in NASC, Sheda-Kwali, FCT

**Table 17: Result of maize hybrid/OPVs demonstrated at Sheda-FCT, 2014**

S/N	Company name	Varieties nominated	Type	Weight of 3 rows (KG)/ (55.5M <sup>2</sup> )	Weight of replicate (Kg)	Average weight (Kg)	Yield (MT/Ha) (Extrapolate)
1	Premier Seeds	Oba Super 4	Yellow-Hybrid	35.0	28.0	31.5	5.7
		Oba Super 2	Yellow-Hybrid	33.0	24.0	28.5	5.1
		Oba Super 1	White-Hybrid	20.0	24.0	22.0	4.0
		Oba Super 9	White-Hybrid	34.2	24.0	29.1	5.2
2	Maslaha Seeds	Sammaz 28	Yellow-OPV	8.4	10.0	9.2	1.7
		Sammaz 15	White-OPV	30.0	24.0	27.0	4.1
		Sammaz 16	White-OPV	36.0	19.8	27.9	5.0
		Sammaz 17	White-OPV	25.2	16.8	21.0	3.8
		Suwan – 1-SR	Yellow-OPV	34.2	16.8	25.5	4.6
		BR9928-DMRSR	White-OPV	36.0	15.0	25.5	4.6
3	Seedco	SC 510	Yellow-Hybrid	36.0	33.0	34.5	6.2
		SC 719	White-Hybrid	36.0	30.6	33.3	6.0
		SC 645	White-Hybrid	32.0	25.0	28.5	5.1
4	Dupont-Pioneer	30 F32	White-Hybrid	45.0	30.0	37.5	6.8
		30 Y87	Yellow-Hybrid	51.0	36.6	43.8	7.9
5	Savannah	Synthetic 5	White-OPV	20.6	18.6	19.6	3.5
6	Samlak	BR9943DMR	White-OPV	20.0	18.4	19.2	3.5

### 2.3.2 Farmers Field day

During the year under review, field day was conducted for stakeholders in the demonstration site at the NASC Technical Headquarters, Sheda-Kwali, FCT on the 28<sup>th</sup> October, 2014 with the immediate past Permanent Secretary, Federal Ministry of Agriculture and Rural Development, Mrs Ibukun Odusote chaired the occasion. About 261 stakeholders representing Farmers groups, Agricultural Development Programmes (ADPs), Extension Personnels, Seed Companies, Royal Fathers, Community Based Organizations, Students, Bank officials, Agro-dealers and Rice Farmers Associations of Nigeria (RIFAN) among others were in attendance. The programme was covered by the News Agency of Nigeria (NAN), National Television Authority (NTA-5) Abuja and the print media. Majority of the Farmers present at the field day and neighboring farmers adjudged the superiority of hybrids and improved OPVs performance over the local checks.

### 2.3.3 World Food Day, 2014

The Council participated in the events organized by the Ministry of Agriculture and Rural Development (FMA&RD) supported by the Food and Agriculture Organization (FAO) captioned “Family Farming - Feeding the World; caring for the Earth”. The programme/activities scheduled from 13<sup>th</sup> -16<sup>th</sup> October, 2014 include among others:

- Walk/Sensitization Programme;
- Book/Photo Exhibition;
- Novelty Match;
- Symposium, *and*



The Grand finale and Exhibition was held at the Old Parade Ground, Area 10, Abuja where the Council participated showcasing publicity materials and Seed testing equipment which attracted 300 and above visitors among whom were the Permanent Secretary, FMA&RD, the FAO Country representatives, Director, Federal Department of Agriculture (FDA). The Council's exhibition adjudged the 2<sup>nd</sup> Best at the event. See pictures below.



**NASC Exhibition stand during World food Day, 2014**

### **2.3.4 Agribusiness Trade Show and Conference**

The Council participated in the West African Exhibitions & Conferences (WAECON) organized by the Nigerian Investment Promotion Commission and the National Agricultural Seeds Council. The programme was held from the 26<sup>th</sup> to 28<sup>th</sup> of August, 2014 at the International Conference Centre, Abuja. The objective of the Trade Show and Conference is to gather Agro-Allied key players and equipment manufacturers in West Africa to evaluate and deliberate on the current government's effort to transform the economy through agriculture and the allied industries and to showcase its strength and opportunities in achieving growth in the agricultural sector.





## 2.4.0 SEED INFORMATION, DATA MANAGEMENT AND CAPACITY BUILDING DEPARTMENT (SIDM&CB)

The Department is responsible for Programme Development and Planning; Monitoring and Evaluation of national seed programme and Council's Projects; Integrated Management Information system and Data Bank for the seed sub-sector; Provision of Information Communication Technology Support; National & International Collaboration /Linkage; Library & Documentation; Capacity Building, among others.

### 2.4.1 National Seed System Survey

The National Seed System Survey was carried out during the year to provide national seed data series for the three traded seed classes (BS, FS and CS), and help policy makers come up with decisions that can make the seed industry more effective, efficient and contribute towards fulfilling ATA goals.

### Major Findings

The seed industry witnessed a great increase in the production of all classes of seeds as well as the number of seed enterprises established during the year. The production of certified seeds rose from **149,844 MT** in 2013 to 178,039 MT in 2014 showing an increase of **19** percent. Similarly, foundation seed production increased from **8,595 MT** in 2013 to 9,814MT during the year. A total of 159 seed entrepreneurs (134 companies, 5 NARIs /IARCs and 20 CBOs) participated in production of seeds during the year compared to 105 recorded in year 2013. The upward trend was attributed to the favourable government policies on GES which has encouraged increased seed production by the various seed producers. The annual trend from 2007 to date is as shown in the table below

**Table 18: Seed crop production by type and class, 2014 (MT)**

S/N	Crop	Breeder	Foundation	Certified	Total
1	Maize	106	3,761	74,064	77,931
2	Rice	5	2,705	91,056	93,766
3	Sorghum	28	1,282	2,845	4,155
4	Millet	2	12	365	379
5	Wheat	4	58	170	231
6	Cowpea	1	32	97	130
7	Soybean	12	400	1,304	1,715
8	Groundnut	16	17	463	496
9	Cotton	14	1,543	7,526	9,083
10	Sesame	3	4	150	158
	Total	192	9,814	178,039	188,045

**Source: NASC**

**Table 19: Seed crop field inspection by type and class, 2014 (Ha)**

S/N	Seed Crop	Breeder	Foundation	Certified	Total
1	Maize	43	1,574	31,239	32,856
2	Rice	2	931	30,500	31,433
3	Sorghum	15	675	1,506	2,195
4	Millet	2	12	357	370
5	Wheat	3	39	113	154
6	Cowpea	1	27	81	109
7	Soybean	10	332	1,073	1,415
8	Groundnut	9	11	257	277
9	Cotton	18	1,928	9,403	11,349
10	Sesame	4	6	157	166
	Total	105	5,534	74,685	80,324

**Source: NASC****Table 20: Certified seed production by type and year (MT)**

s/n	Seed crop	2007	2008	2009	2010	2011	2012	2013	2014	% change: 2013-2014
1.1	Maize-Hybrid	1,137	2,641	3,150	1,607	1,947	3,335	4,636	2,919	-37
1.2	Maize-OPVs	2,186	4,567	1,782	1,803	3,367	10,916	53,492	71,145	33
1.3	<b>Maize Total</b>	<b>3,323</b>	<b>7,208</b>	<b>4,931</b>	<b>3,409</b>	<b>5,313</b>	<b>14,251</b>	<b>58,128</b>	<b>74,064</b>	<b>27</b>
2.1	Rice-Lowland	4,426	6,284	813	1,836	6,321	18,040	72,879	90,439	24
2.2	Rice-Upland	1,117	2,031	371	320	509	810	707	617	-13
2.3	<b>Rice-Total</b>	<b>5,543</b>	<b>8,315</b>	<b>1,184</b>	<b>2,155</b>	<b>6,830</b>	<b>18,850</b>	<b>73,585</b>	<b>91,056</b>	<b>24</b>
3.1	Sorghum-OPVs	199	2,366	509	250	327	644	1,360	2,845	109
3.2	Sorghum-Hybrid	-	-	-	-	-	-	28	-	-
3.3	<b>Sorghum Total</b>	<b>199</b>	<b>2,366</b>	<b>509</b>	<b>250</b>	<b>327</b>	<b>644</b>	<b>1,388</b>	<b>2,845</b>	<b>105</b>
4	Millet	161	1,002	939	152	148	171	98	365	272
5	Wheat	70	250	92.69	-	-	-	-	170	-
6	Cowpea	154	1,078	114	153	67	88	50	97	94
7	Soybean	415	546	240	151	329	1,081	3,278	1,304	-60
8	Groundnut	144	404	73	62	15	60	69	463	571
9	Cotton	94	301	15	70	1,751	9,333	13,189	7,526	-43
10	Sesame	19	245	3	6	8	10	60	150	150
	<b>Total</b>	<b>10,122</b>	<b>21,715</b>	<b>8,101</b>	<b>6,409</b>	<b>14,788</b>	<b>44,488</b>	<b>149,844</b>	<b>178,039</b>	<b>19</b>

**Source: NASC****Table 21: Certified seed production summary by source and year**

year	2009		2010		2011		2012		2013		2014	
Source	Area sown (ha)	production (mt)	Area sown (ha)	production (mt)	Area sown (ha)	production (mt)	Area sown (ha)	production (mt)	Area sown (ha)	production (mt)	Area sown (ha)	production (mt)
Companies	5,394	7,058	2,796	4,309	9,046	12,549	21,499	42,278	67,489	146,008	73,816	176,140
CBOs	759	951	1,456	2,100	1,202	2,239	976	2,209	1,469	3,836	869	1,899
Total	6,153	8,009	4,252	6,409	10,248	14,788	22,476	44,487	68,957	149,844	74,685	178,039

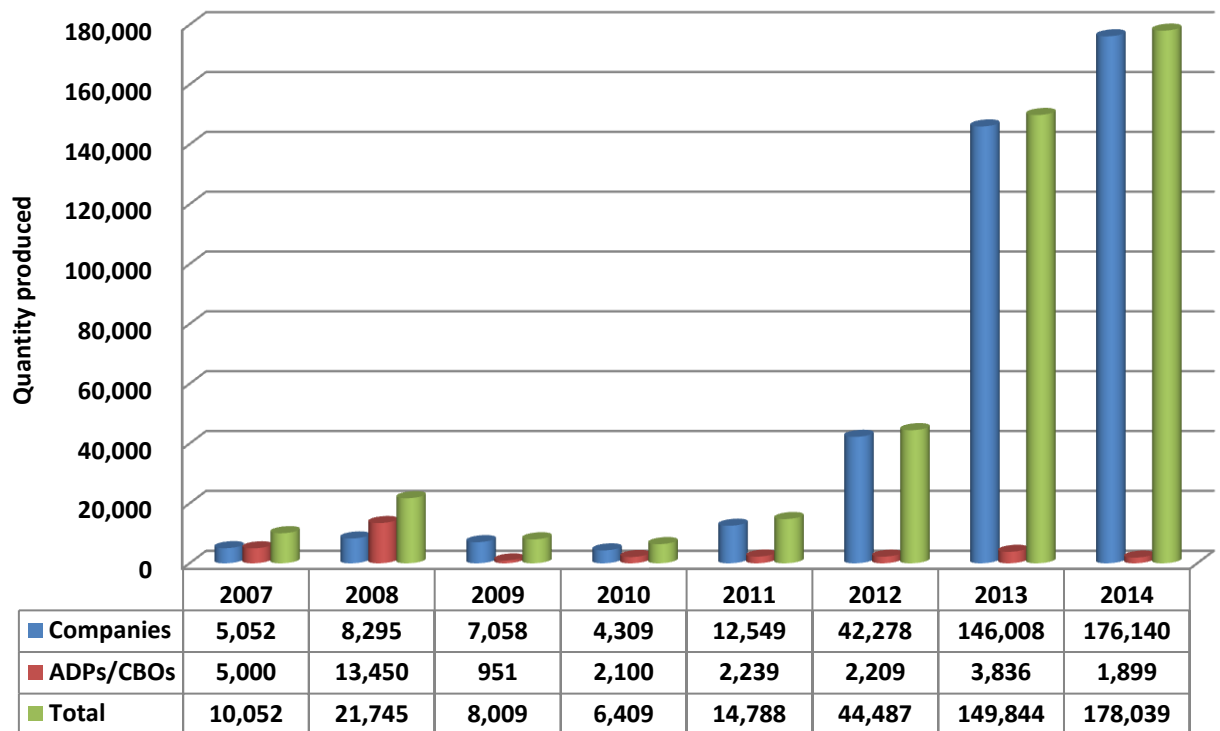
Seed crops: maize, rice, sorghum, millet, cowpea, soybean, groundnut, cotton &amp; sesame

**Table 22: Certified seed production by source and type**

seed type	source	2009		2010		2011		2012		2013		2,014	
		Area sown (ha)	product ion (mt)	Area sown (ha)	producti on (mt)	Area sown (ha)	product ion (mt)	Area sown (ha)	produc tion (mt)	Area sown (ha)	product ion (mt)	Area sown (ha)	producti on (mt)
Maize	Companies	3,217	4,579	1,691	2,476	3,236	4,616	6,006	13,671	23,857	55,791	30,743	72,841
	CBOs/ADPs	196	309	583	933	422	698	221	580	807	2,338	496	1,223
	<b>Total</b>	<b>3,413</b>	<b>4,888</b>	<b>2,274</b>	<b>3,409</b>	<b>3,658</b>	<b>5,313</b>	<b>6,227</b>	<b>14,251</b>	<b>24,664</b>	<b>58,128</b>	<b>31,239</b>	<b>74,064</b>
Rice	Companies	770	936	703	1,403	1,818	5,641	5,011	17,641	23,976	72,323	30,390	90,743
	CBOs/ADPs	206	200	383	752	418	1,189	365	1,209	440	1,262	111	313
	<b>Total</b>	<b>976</b>	<b>1,136</b>	<b>1,086</b>	<b>2,155</b>	<b>2,236</b>	<b>6,830</b>	<b>5,376</b>	<b>18,850</b>	<b>24,415</b>	<b>73,585</b>	<b>30,501</b>	<b>91,056</b>
Sorghum	Companies	492	492	161	209	260	260	295	626	931	1,380	1,405	2,670
	CBOs/ADPs	17	17	32	36	67	67	12	18	4	8	101	175
	<b>Total</b>	<b>509</b>	<b>509</b>	<b>193</b>	<b>245</b>	<b>327</b>	<b>327</b>	<b>307</b>	<b>644</b>	<b>935</b>	<b>1,388</b>	<b>1,506</b>	<b>2,845</b>
Millet	Companies	636	764	24	21	41	41	92	74	27	37	277	287
	CBOs/ADPs	146	175	145	136	107	107	122	98	61	61	80	78
	<b>Total</b>	<b>782</b>	<b>939</b>	<b>169</b>	<b>157</b>	<b>148</b>	<b>148</b>	<b>214</b>	<b>171</b>	<b>88</b>	<b>98</b>	<b>357</b>	<b>365</b>
Wheat	Companies	-	-	-	-	-	-	-	-	-	-	113	170
	CBOs/ADPs	40	93	-	-	-	-	-	-	-	-	-	-
	<b>Total</b>	<b>40</b>	<b>93</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>113</b>	<b>170</b>
Cowpea	Companies	49	49	45	49	16	19	22	26	12	13	74	89
	CBOs/ADPs	65	65	94	104	38	48	51	62	35	36	7	8
	<b>Total</b>	<b>114</b>	<b>114</b>	<b>139</b>	<b>153</b>	<b>54</b>	<b>67</b>	<b>73</b>	<b>88</b>	<b>47</b>	<b>50</b>	<b>81</b>	<b>97</b>
Soybean	Companies	191	191	120	120	219	241	807	969	2,153	3,278	1,015	1,234
	CBOs/ADPs	49	49	31	31	75	88	93	112	38	56	58	70
	<b>Total</b>	<b>240</b>	<b>240</b>	<b>151</b>	<b>151</b>	<b>294</b>	<b>329</b>	<b>901</b>	<b>1,081</b>	<b>2,192</b>	<b>3,278</b>	<b>1,073</b>	<b>1,304</b>
Groundnut	Companies	40	48	10	11	9	10	26	33	27	54	239	430
	CBOs/ADPs	22	26	46	51	5	5	17	26	8	15	18	32
	<b>Total</b>	<b>61</b>	<b>73</b>	<b>56</b>	<b>62</b>	<b>14</b>	<b>15</b>	<b>42</b>	<b>60</b>	<b>35</b>	<b>69</b>	<b>257</b>	<b>462</b>
Cotton	Companies	-	-	37	15	3,435	1,718	9,228	9,228	16,507	13,189	9,403	7,526
	CBOs/ADPs	15	15	140	56	66	33	95	105	-	-	-	-
	<b>Total</b>	<b>15</b>	<b>15</b>	<b>176</b>	<b>70</b>	<b>3,501</b>	<b>1,751</b>	<b>9,323</b>	<b>9,333</b>	<b>16,507</b>	<b>13,189</b>	<b>9,403</b>	<b>7,526</b>
Sesame	Companies	-	-	6	5	11	4	13	10	-	-	157	150
	CBOs/ADPs	3	3	2	2	5	4	-	-	75	60	-	-
	<b>Total</b>	<b>3</b>	<b>3</b>	<b>8</b>	<b>7</b>	<b>16</b>	<b>8</b>	<b>13</b>	<b>10</b>	<b>75</b>	<b>60</b>	<b>157</b>	<b>150</b>
<b>G/Total</b>		<b>6,153</b>	<b>8,009</b>	<b>4,252</b>	<b>6,409</b>	<b>10,248</b>	<b>14,788</b>	<b>22,476</b>	<b>44,487</b>	<b>68,957</b>	<b>149,844</b>	<b>74,687</b>	<b>178,039</b>

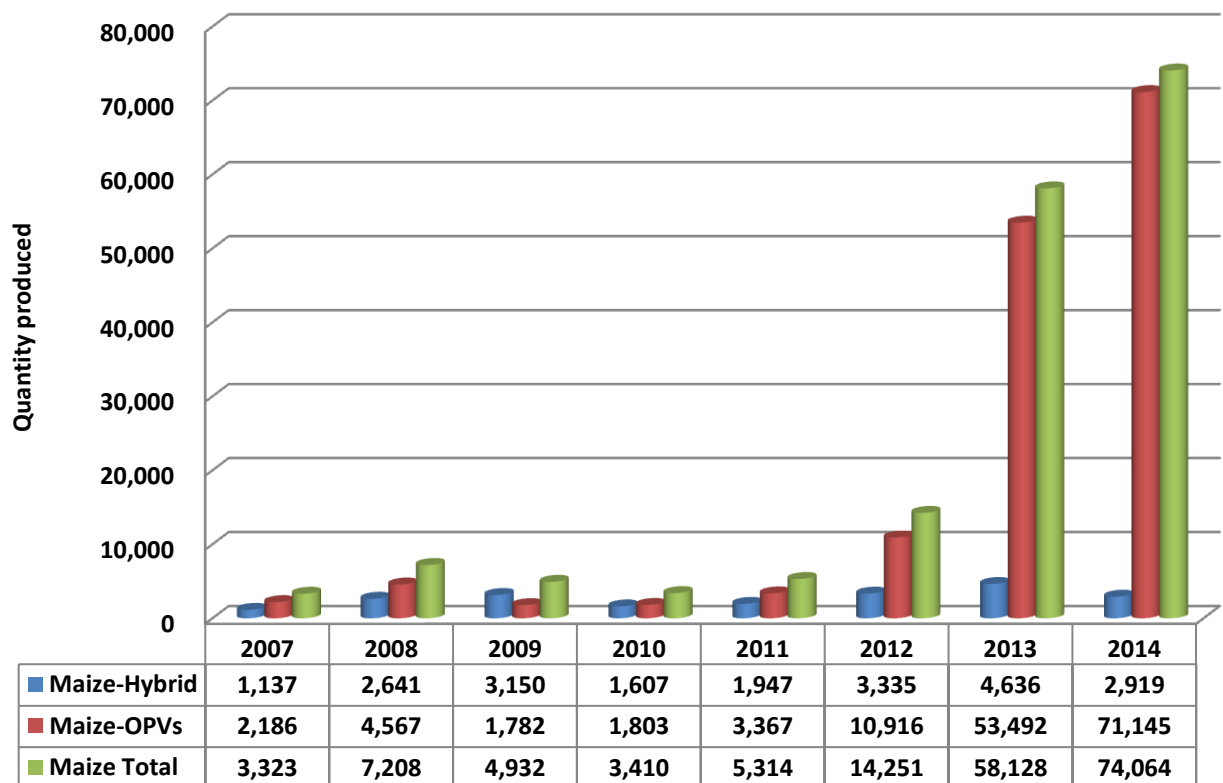
**Source: NASC**

**Figure 3: Certified seed production by source and year (MT)**



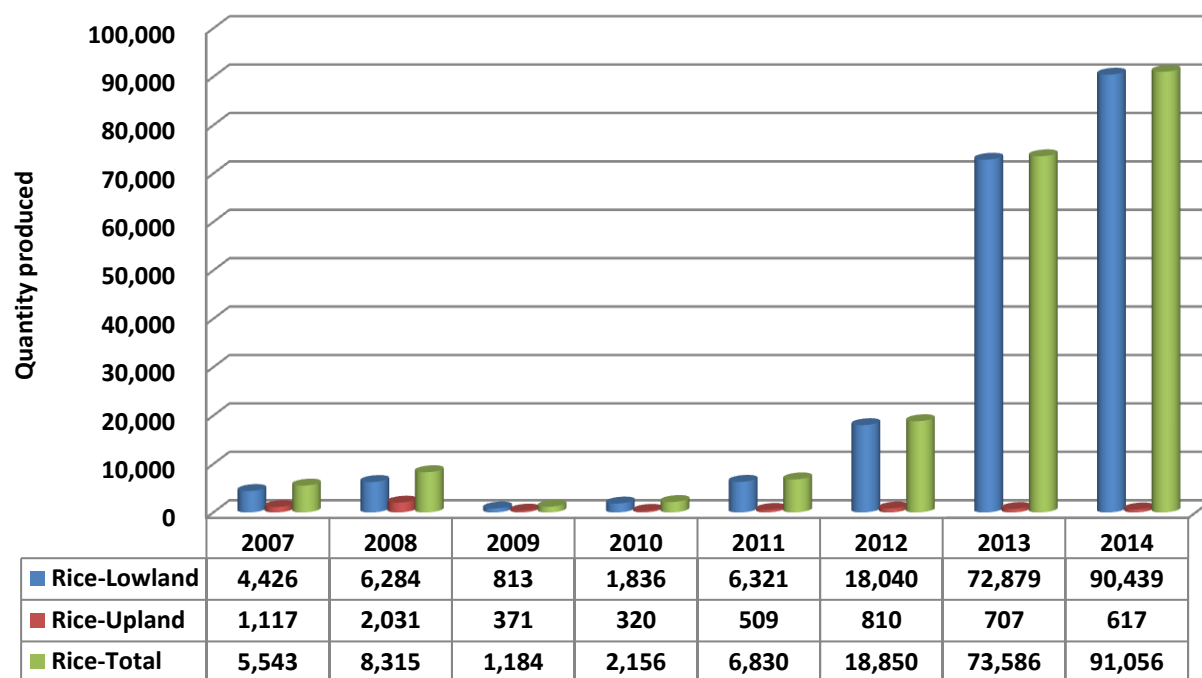
Source: NASC

**Figure 4: Maize certified seed production by type and year (MT)**



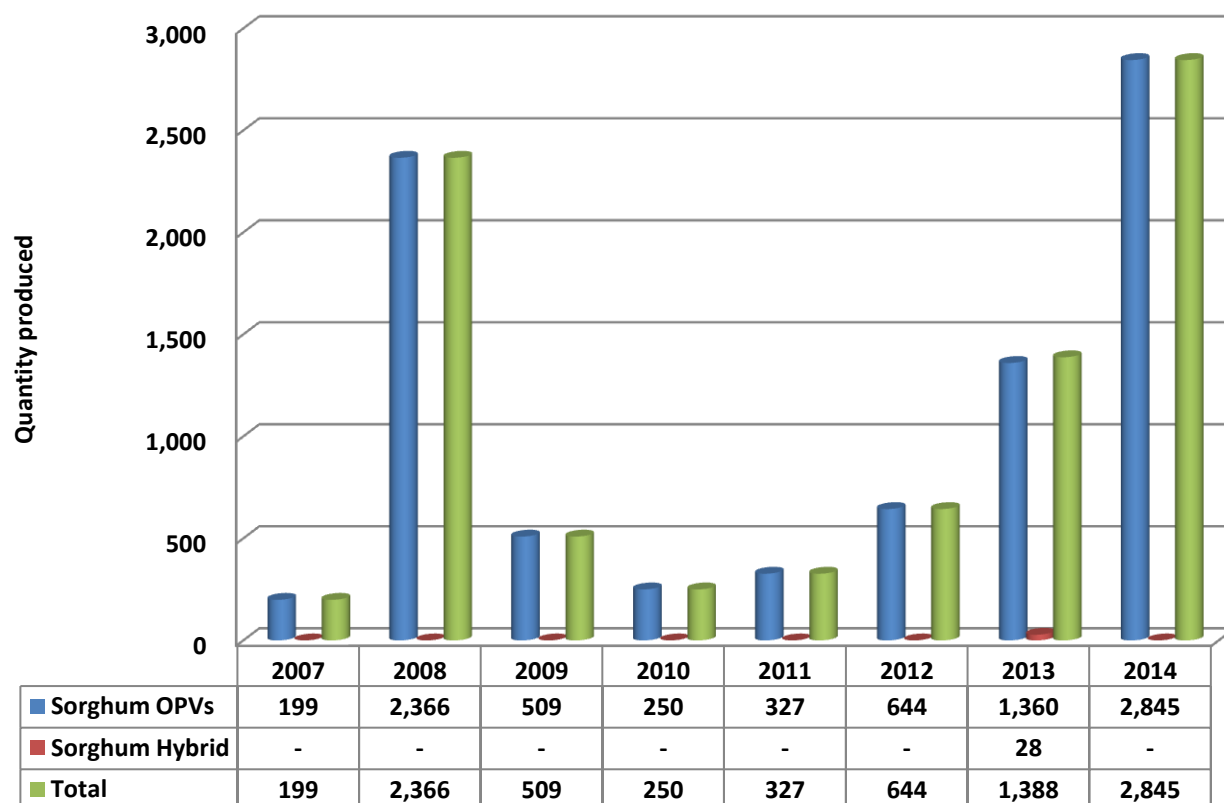
Source: NASC

**Figure 5: Rice certified seed production by type and year (MT)**



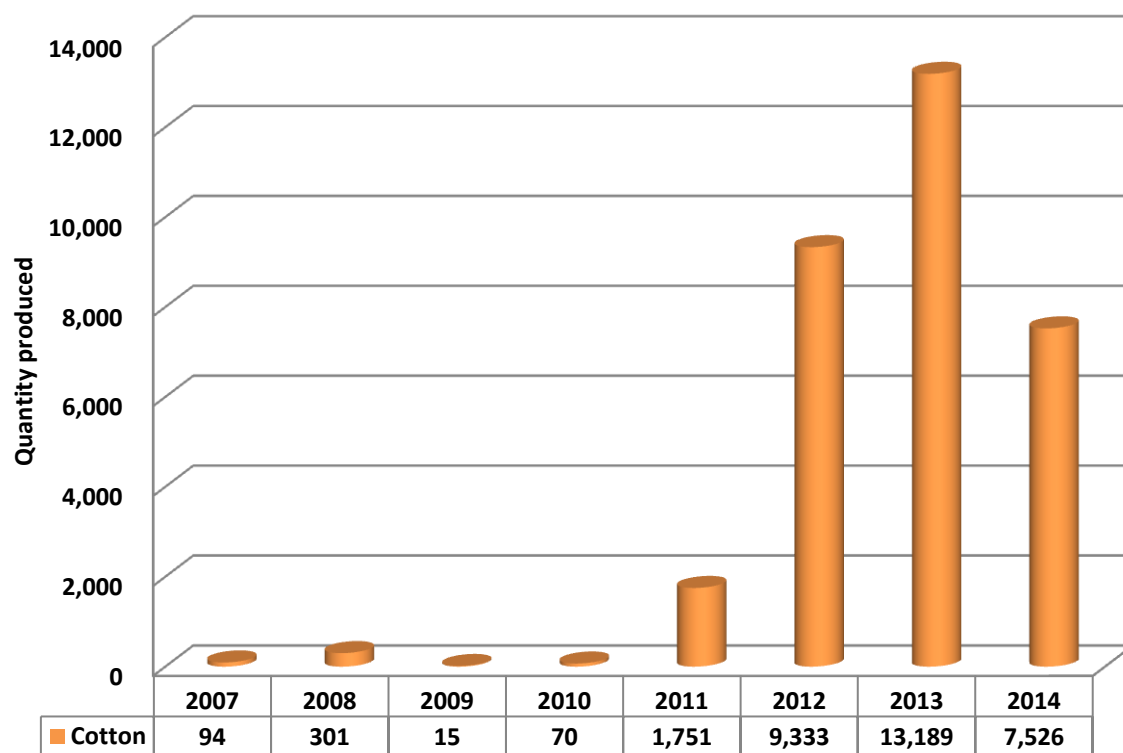
Source: NASC

**Figure 6: Sorghum certified seed production by year (MT)**



Source: NASC

**Figure 7: Certified cotton seed production by year (MT)**



Source: NASC

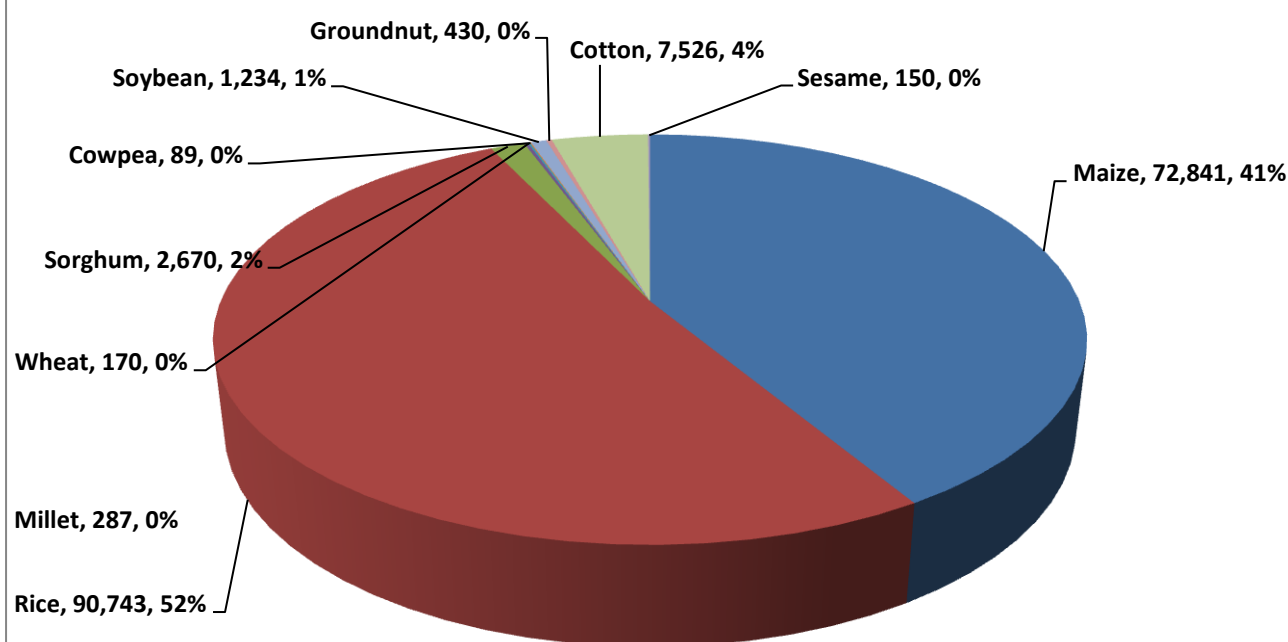
## 2.4.2 SEED COMPANIES: CERTIFIED SEED PRODUCTION TREND: 2007-2014

A total of **176,140 MT** of seed was certified for **134** companies in 2014 compared to **146,008 MT** recorded by **86** companies in 2013. Details are as shown in table 23 and figure 8

**Table 23: Companies: Certified seed production by type and year (MT)**

S/N	Seed crop	2007	2008	2009	2010	2011	2012	2013	2014	%change: 2013-2014
1.1	Maize-Hybrid	1,137	2,641	3,150	1,607	1,947	3,335	4,636	2,919	-37
1.2	Maize-OPVs	942	1,130	1,429	869	2,669	10,336	51,155	69,922	37
1.3	<b>Maize-Total</b>	<b>2,078</b>	<b>3,771</b>	<b>4,579</b>	<b>2,476</b>	<b>4,616</b>	<b>13,671</b>	<b>55,791</b>	<b>72,841</b>	<b>31</b>
2.1	Rice-Lowland	2,158	1,524	679	1,355	5,526	17,271	71,737	90,158	26
2.2	Rice-Upland	475	282	258	48	115	375	587	585	0
2.3	<b>Rice-Total</b>	<b>2,633</b>	<b>1,806</b>	<b>936</b>	<b>1,403</b>	<b>5,641</b>	<b>17,646</b>	<b>72,324</b>	<b>90,743</b>	<b>25</b>
3.1	Sorghum OPVs	117	2,186	492	209	260	628	1,352	2,670	97
3.2	Sorghum Hybrid							28	-	0
3.3	<b>Sorghum Total</b>	<b>117</b>	<b>2,186</b>	<b>492</b>	<b>209</b>	<b>260</b>	<b>628</b>	<b>1,388</b>	<b>2,670</b>	<b>92</b>
4	Millet		295	764	21	41	74	37	287	676
5	Wheat								170	0
6	Cowpea	62	84	49	49	19	26	13	89	585
7	Soybean	138	129	191	120	241	970	3,222	1,234	-62
8	Groundnut	23	12	48	11	10	33	54	430	696
9	Cotton				15	1,718	9,228	13,189	7,526	-43
10	Sesame		12		5	4	10	60	150	150
	<b>Total</b>	<b>5,052</b>	<b>8,295</b>	<b>7,058</b>	<b>4,309</b>	<b>12,549</b>	<b>42,286</b>	<b>146,008</b>	<b>176,140</b>	<b>21</b>

**Figure 8: Companies certified seed production share, 2014 (MT)**



**Table 24: CBOs: Certified seed production by type and year**

S/N	Seed crop	2006	2007	2008	2009	2010	2011	2012	2013	2014	% change 2013-2014
1	Maize-OPVs	1,005	1,244	3,437	353	933	698	580	2,338	1,223	-48
2	Rice	1,647	2,909	6,509	227	752	1,189	1,209	1,262	313	-75
3	Sorghum	77	82	180	17	41	67	18	8	175	2088
4	Millet	130	161	707	175	131	107	98	61	78	28
5	Cowpea	105	92	995	65	104	48	62	36	8	-72
6	Soybean	257	277	417	49	31	88	112	56	70	12
7	Groundnut	122	121	392	26	51	5	26	15	32	113
8	Cotton	47	94	301	15	56	33	105	-	-	-
9	Sesame	13	19	233	3	2	4		60	-	-
	Total	3,442	5,070	13,420	1,043	2,100	2,239	2,210	3,836	1,899	-50

**Table 25: CBOs: certified seed production by type and source, 2014 (MT)**

S/N	Producer	Maize-OPV	Rice	Sorghum	Millet	Cowpea	Soybean	Groundnut	Total
1	Borno ADP	215							215
2	FUT-Akure	40							40
3	FUT-Minna	25	231						256
4	IAR-CBSP	44					13		57
5	IAR&T	18							18
6	ICRISAT				20				20
7	IITA - WAAPP	1							1
8	MAAN Gombe	83							83
9	MOUUAU	4							4
10	N2 Africa					8	16	28	51
11	Nassarawa-ADP	30	23						53
12	NCRI-CBSP						41		41
13	Taraba-CARDP	93							93
14	WAAP-GBADP	15							15
15	WAAP-NSADP	66							66
16	WAAPP-IITA	4							4
17	WAAPP-KDADP	282	59	137					478
18	WAAPP-KNARDP	238		38					276
19	WAAPP-ODADP	55							55
20	Yobe-CBARDP	13			58			5	75
	Total	1,223	313	175	78	8	70	32	1,899

## 2.4.3 Seed prices

**Table 26: Certified seed prices by type and year**

s/n	Seed Type	Unit	2006	2007	2008	2009	2010	2011	2012	2013	2014
1	Maize-Hybrid	1kg	151	155	171	174	191	197	240	240	250
2	Maize-OPVs	1kg	119	125	137	154	164	171	200	200	200
3	Rice	1kg	140	149	174	164	186	193	220	220	250
5	Sorghum	1kg	110	116	132	148	141	158	200	200	220
6	Millet	1kg	64	77	101	156	160	176	190	200	200
7	Cowpea	1kg	159	150	181	188	170	206	250	260	350
8	Soybean	1kg	128	132	150	170	165	191	240	240	220
9	Groundnut	1kg	233	238	238	350	320	488	350	350	650
10	Cotton	1kg	32	39	46	120	100	160	120	180	180
11	Sesame	1kg	127	136	160	325	470	300	-	-	-



#### **2.4.4 FAO Seed Project “Strengthening National Seed Systems in Nigeria (TCP/NIR/3403)”**

The Project which commenced in July 2013 is to ensure a sustainable national seed system for staple food crops to improve productivity, household incomes and food security. The project is implemented by NASC in collaboration with FAO, Nigeria. The results achieved in the implementation of project activities during the year are as follows:

1. The review and updating of the national seed certification system was completed and the report submitted.
2. The national seed law was updated and harmonized with regional (ECOWAS) systems. The Revised Seed Act that emanated from the review has been forwarded to the Ministry for further legislative actions. In addition, the review of the National Seed Policy was also carried out as a two-day Seed Policy Forum was held on April 14-15, 2014 to receive inputs from various stakeholders in the seed industry (FMARD, Universities, NARIs, NABDA, FMEEnv, Seed Companies, ADPs, CBARDs, NASC, FAO, IFAD, WASP, etc) for the review of the National Seed Policy. The Draft Seed Policy was presented to the stakeholders for validation at the National Seed Retreat held in December, 2014.
3. The report of the assessment of the capacity of the national and regional seed testing laboratories at Sheda, Zaria, Ibadan, Jos, Umudike, Gombe and Asaba was undertaken during the year. Some of the recommendations are being implemented in the procurement of seed testing equipment and for the training of the seed analysts.
4. The skills of seed production and quality control officials in the public and private seed sector was upgraded as the following training workshops were conducted:
  - Seed Production for 24 participants from seed companies, IFAD-CBARD, NASC held NAERLS Zaria from April 23-25, 2014
  - Seed certification and Quality Control for 23 participants from NASC, IFAD-CBARD at NAERLS Zaria on 28-29 April, 2014
5. The process for the procurement of seed testing equipment was initiated during the year. In addition, the process for the development of communication strategy and communication materials by NAERLS commenced during the year.

#### **2.4.5 Catholic Relief Services (CRS)–Sustainable Cassava Seed System (SCSS)**

##### **Introduction:**

The CRS – SCSS project is funded by Bill & Melinda Gates Foundation (BMFG) to develop a sustainable Cassava Seed System in Nigeria, with project period of May 2012 – May 2016. The project has Benue and Oyo States as pilot States with small scale seed entrepreneurs being developed to participate in the Commercial Production and sales of Cassava stem cutting. NASC as a partner is participating in the project based on the following objectives:

1. Development of Quality Control protocol in the cassava seed system.
2. Develop an information system to trace seed movement from Breeder (BS) to Certified seed (CS) and its final use by farmers
3. Conduct trainings on quality cassava seed system to all the stakeholders.
4. Carry out seed certification of all cassava seed fields under the project for quality assurance.
5. The production and marketing of quality cassava stems by SEs to ensure that farmers have access to quality cassava stems

##### **2014/2015 Activities:**

A total of 25 seed fields were inspected in four (4) LGAs of Benue State planted to TMS- 0505, TMS-0581 and TME-419 covering a total of 11.956 Ha while 51 seed fields were inspected in four (4) LGAs of Oyo State covering a total of 28.916Ha planted to TMS-0289, TMS-1632, TMS-2324, TMS-0505 and TMS-0581. Fifty (50) copies of the quality control protocol in the cassava seed system were produced and distributed to the stakeholders for use.

#### **2.4.6 The National Seed Retreat**

The Retreat was held from 8<sup>th</sup> - 9<sup>th</sup> December, 2014 at Chelsea Hotel, Abuja with the theme *“Transforming the Nigeria Seed Industry to Meeting the Goals of Agricultural Transformation Agenda”* to review the status of the national seed industry, identify challenges relating to varietal development, seed production, processing, seed quality assurances, marketing and financing of the seed sub-sector with a view to charting the way forward. A total of 283 participants drawn from key stakeholders were in attendance. The following recommendations were made at the end of the retreat:

1. The training and recruitment of more plant breeders and seed technologists should be addressed through Formal and Informal Training. NASC in collaboration with relevant organizations should organize annual vocational training for various categories of personnel in the seed industry.
2. The publication of crop descriptors/characteristics of prominent varieties (recently released and in use) should be expedited by the NASC.
3. Released varieties should be adequately maintained while the older varieties which are not in use should be kept as germplasm.

4. Seed companies should actively interact with releasing institutes to promote and commercialize newly released and better performing varieties.
5. There should be increased and sustained funding for research and development for the various activities in the seed value chain.
6. The National Variety Release Committee should ensure that DUS software is made compulsory as a step to be followed before a variety is developed and released.
7. Need to review the licensing agreement for clarity and ensure trust for the growth of the Seed Industry.
8. The Governing Board of the National Agricultural Seeds Council should be constituted to strengthen the implementation of the seed policy.
9. Relevant Legislation for IPR/Plant Variety Protection should be put in place.
10. Seed companies need to develop their own Agro-dealer networks independent of GES in order to reach farmers more directly. Seed companies should be assisted to develop the capacity of the present input dealers thus developing them to network that will sustainably handle seed distribution
11. There should be increased synergy between private and public sectors to promote adoption and utilization of improved seeds and hybrids in order to create demand



**The Representative of the Honourable Minister of Agriculture & Rural Development, Dr Martin Fregene in a group photograph with participants during the National Seed Retreat,**



**The Permanent Secretary, Federal Ministry of Agriculture & Rural Development, Arc. Sony S.T.Echono in a group photograph with participants at the closing ceremony of the National Seed Retreat**

**Table 27: Capacity Building List, 2014**

S/N	Course Title	No. Trained	Training Institute	Nature
1	Strengthening Regulatory Capacity of Institutional Bio-safety Committees in Nigeria	1	NEPAD with Ministry of Environment	Local
2	Functional Testing of the National Monitoring and Evaluation	3	FEPAR with National Planning Commission & Ministry of Agriculture	Local
3	International Training Programme on Hybrid Maize	3	CHINA	Foreign
4	International Training Programme on Seed Quality Assurance	5	INDIA	Foreign
5	International Bio-safety Short Course	1	USA	Foreign
6	International Training Programme on Hybrid Rice	1	CHINA	Foreign
7	Seed Production	10	Organized by National Agricultural Seeds Council	Local
8	Certification Technique	23	FAO	Local

Total No. of Staff that participated in Local training = 37

Total No. of staff that participated in Foreign training = 10



## **2.5.0 FINANCE AND ADMINISTRATION DEPARTMENT**

The department is responsible for the overall management of the Council finance and human resources through the performance of under listed activities:

### **2.5.1 Staff Re-deployment**

In an effort to re-organize the council for better performance thirty- six (36) staff were re-deployed during the year

### **2.5.2 Appointment**

Appointments were made to fill various existing vacancies which were created due to retirement, deployments or promotion of the officers formerly occupying such positions. Prominent among such appointments was the emergence of Dr. P.O Ojo as the Director- General of the Council and Mr. L.M Bojuwon as the Director, Finance and Administration.

### **2.5.3 Retirement**

A total number of fifteen (15) staff retired from service between January and December, 2014 amongst who were Rev. A.O Olatokun, the Director- General 2011-2014, Mr. E.O Omotosho, the Director Finance and Admin and Engr. R. Y Adeoye, the Director Technical Headquarters, Sheda etc.

### **2.5.4 Promotion**

A total number of one hundred and sixty one (161) staff comprising of one hundred and twenty- four (124) senior staff and thirty- seven (37) junior staff were promoted.

### **2.5.5 Staff Strength**

The staff strength of the council as shown on the Nominal Roll as at December, 2014 is Three Hundred and Fifty- Five (355): Directorate-34; Senior-275; and Junior-46.

### **2.5.6 Corp Members**

One hundred Corps members were deployed to beef-up the Councils personnel for Seed Certification and Quality Control activities.

### **2.5.7 Finance Unit:**

Financially, the council started the year on a slow but steady pace and eventually stabilized for its statutory role of seed regulatory function in the country to enhance the Agricultural Transformation Agenda of the Federal Government.

### **2.5.8 Revenue:**

The sum of **₦ 230, 562,091.00** (Two Hundred and Thirty Million, Five Hundred and Sixty Two Thousand and Ninety One Naira only) was realized as Internally Generated Revenue during the year as against **₦212,721,000.00** (Two Hundred Million, Seven Hundred and Twenty One Thousand Naira) generated in

2013. The revenue generated has been duly remitted to the Consolidated Revenue Fund of the Federal Government.

#### **2.5.9 Overhead:**

The allocation under **recurrent expenditure** used for the running of the Council for the year dropped to ~~₦~~42, 051,276.00 as against ~~₦~~68, 039,688 in 2013. The expenditure was centered on payment of rents of the corporate Headquarters, running cost of Sheda and Regional offices in the six geopolitical Zones, Settlement of utility bills, maintenance and fuelling of project vehicles etc.

#### **2.5.10 Personnel:**

The Council under personnel expenditure, received the sum of ~~₦~~ 577, 899,859.10 during the year and same was used to settle staff salaries and statutory deductions such as tax (PAYE), Union dues and National housing funds. The deductions made under these payments have been remitted appropriately to the respective agencies. The closing balance of ~~₦~~ 34,790,379.32 meant for Pension and National Health Insurance Scheme was paid to chest.

#### **2.5.11 Capital:**

The Capital release of ~~₦~~ 138, 582,887 for the year as against ~~₦~~ 233, 936,886.00 in 2013 was grossly inadequate to carry out various capital projects of the Council. The ~~₦~~ 16, 417.50 balances was paid back to chest at the end of the financial year. However, a number of projects could not be executed fully due to insufficient releases.

#### **2.5.12 Audit Report:**

In line with extant regulation, the external auditors Layo Sipe and Co were invited to audit the Council's book of account for the year 2014. The final report has since been forwarded to the office of the Auditor General of the Federation, and Public Accounts Committee of the National Assembly for their necessary action.

### Annexure 1: Companies: certified seed production by type and source, 2014 (MT)

S/N	Company name	Maize	Rice	Sorghum	Millet	Wheat	Cowpea	Soybean	Groundnut	Cotton	Sesame	Total
1	5 Skyme	75										75
2	A.A. Albasu	1,048	360									1,408
3	A.B.M. Seeds	383										383
4	Adifa Seeds	562										562
5	AGAN Seeds		84									84
6	Akon Associates		330									330
7	Al-Gazaki Seeds		111									111
8	Alheri Agro		207									207
9	Alyuma Seeds		273									273
10	Amayindi Seeds	75	150									225
11	Annoor Seeds	625										625
12	Arewa Seeds									28		28
13	Arziki Seeds		606									606
14	Asefo Seeds		305									305
15	ASMAU Seeds	128										128
16	Atafi Seeds		450									450
17	Babmus Seeds		169									169
18	Benonee Seeds		135									135
19	Boetz Int. Seeds	103	228									331
20	Bucharest Seeds		119									119
21	Bumfash Seeds		865									865
22	CADL	865	593									1,458
23	CEED Global	135	201									336
24	Champion Seeds	495	60	19								574
25	Chimande Seeds		290									290
26	Da-AllGreen	1,001	1,136	511				85				2,733
27	Daddo Seeds	650	1,023									1,673
28	Dandutse Seeds	1,860	720									2,580
29	Danyaro Seeds		259									259
30	Daula Seeds	500	300					120			32	952
31	Debiro Seeds	6,325	1,980	1,140								9,445
32	Dentex Ltd		31									31
33	Diamond Eagle		81									81
34	E99 Seeds		377									377
35	Ejioye Seeds	70	75									145
36	Ella Agro Seeds		1,471									1,471
37	Esmot Seeds	750	600									1,350
38	Evergreen Seeds	296										296
39	FeedAll Seeds	695	1,209					7				1,911
40	First Let Seeds	43	66									109
41	Galawaki Seeds		192									192
42	GAWAL Seeds	2,505	2,622									5,127
43	Girmal Seeds	5	180									185
44	Gold Agric. Seeds	3,370	701									4,071
45	Goro Seeds		9,252									9,252
46	Green Gold Construct							2				2

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S/N	Company name	Maize	Rice	Sorghum	Millet	Wheat	Cowpea	Soybean	Groundnut	Cotton	Sesame	Total
47	Green Pal Global	74		16	16		6					112
48	Green Seeds		156									156
49	Greenspire Seeds	959	948	136	271			91	266		67	2,737
50	Happy Seeds					22						22
51	Hydromaks Seeds		735					149				884
52	IAD Seeds		600									600
53	Inganchi Seeds	90					12					102
54	Inspire Agric. Genetic		414									414
55	Interproducts Seeds	679	459									1,138
56	Intra-West Farm	10										10
57	Isehunwa Seeds		531									531
58	ISWA Seeds		261									261
59	Ito paoza Seeds		159									159
60	Jabico Seeds		327									327
61	Jammy Nagari	6,113	2,736					66				8,915
62	JASCO Seeds		1,074									1,074
63	Jetan Agro Seeds		336									336
64	Jirkur Seeds	401	234	21				42	36			734
65	Jomas Seeds	188	240	57			24	12				521
66	Jordan Seeds		210									210
67	Khairriyya Seeds	1,175										1,175
68	Kojoli Farms		1,089	38								1,127
69	Kporaks Farm						1					1
70	L.F.S. Seeds		318									318
71	Lasam Seed		264									264
72	Composite		59									59
73	Lumiere Seed		210									210
74	M.M. Bello Seeds	1,050	1,260									2,310
75	Maina Seeds	210	274			27		43				554
76	Mamora Seeds	215	334					4			51	604
77	Manoma Seeds	251	1,500					12				1,763
78	Manuwa & Nina Seeds	36	317									353
79	Marsa Seeds		699									699
80	Maslaha Seeds	3,476	2,021									5,497
81	Mazezeb Seeds	2,550	1,500									4,050
82	M'billa Farm	334										334
83	MCLord Seeds		337									337
84	Meltdown Seeds		157									157
85	Meridian Seeds		3,120									3,120
86	Molygreen Seeds		96									96
87	Nabaichi Seeds	216										216
88	Nagari Seeds	608	1,359					14				1,981
89	Nagarta Seeds	2,588	3,902									6,490
90	Nagogo Seeds	2,155										2,155
91	Nana Wafiya Seeds	108		57				49				214
92	NIFACO Seeds		675									675

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S/N	Company name	Maize	Rice	Sorghum	Millet	Wheat	Cowpea	Soybean	Groundnut	Cotton	Sesame	Total
93	Niger Resources		360									360
94	NI'IMA Seeds	375	630									1,005
95	Nwabudo Seeds	744										744
96	Nyam Seeds	605	165									770
97	Olam Seeds		1,189									1,189
98	Pat-May Seeds		375									375
99	Perfect Impact Seeds	636	648									1,284
100	Phenerow Seeds		793									793
101	Popular Seeds	65	1,071									1,136
102	Premier Seeds	2,381	3,090	61		30		126				5,688
103	Rahama Seeds		563			31						594
104	Ramallah Seeds		330									330
105	Raymos Guanah		330									330
106	Romary Venture	25	1,176									1,201
107	SA'A SEEDS	30										30
108	Salami Alada Seeds	213	225	38								476
109	Samlak Seeds	586	427									1,013
110	Sangrom Seeds	255		386								641
111	Savannah Seeds	692	1,643									2,335
112	Seed Co	91										91
113	Seed Project	129	539									668
114	Semence Agricole		408									408
115	SIA Seeds	993										993
116	Souvenir Seeds	514	548									1,062
117	Springfield Seeds	6,743	1,176									7,919
118	Strategic Seeds		761									761
119	Sylvanus Farms		90									90
120	Syngeta Seeds		90									90
121	Tago Seeds	125										125
122	TAK Seeds		1,695									1,695
123	Techni Seeds		488									488
124	Tirendin Seeds	2,450	6,603									9,053
125	Tukunyar Gwari	461										461
126	Value Seeds	400	486			60	46	263				1,255
127	Vine Seeds		404									404
128	Vitae Seeds	446	1,782						128			2,356
129	WACOT Seeds	6,100	4,200					150		7,498		17,949
130	Wadata Seeds	820	900									1,720
131	Wadtare Seeds	300	300	190								790
132	Zakiyya Seeds		179									179
133	ZEE Seeds	617	120									737
134	Zisak Seeds		240									240
	<b>Total</b>	<b>72,841</b>	<b>90,743</b>	<b>2,670</b>	<b>287</b>	<b>170</b>	<b>89</b>	<b>1,234</b>	<b>430</b>	<b>7,526</b>	<b>150</b>	<b>176,140</b>

Source: NASC