



WHAT'S ON OUR PLATES?

A Report on Market Shelf Survey for
Products of Genetically Modified Organisms
in Nigeria



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Acknowledgments

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1. BACKGROUND

Genetically Modified Organisms (GMOs) are products of genetic engineering which is also known as genetic modification (GM) or modern biotechnology. This is a technology that allows scientists to create plants, animals and micro-organisms by manipulating genes in a way that is not possible via traditional or natural processes.ⁱ

Genetic manipulation of crops poses grave concern for food systems, human and environmental health. Crops are genetically modified for two main traits—to be resistant to herbicides (mostly made by the seed companies) or to act as pesticides against target pests. GMOs are accompanied by heavy doses of chemicals which are highly toxic and linked to serious health defects.

GMOs present several risks to the environment including increased use and accumulation of toxic chemicals, soil degradation and destruction of biodiversity. Also, they have

potential to contaminate natural varieties and will persist in nature for many years.

Glyphosate, a major component of Roundup Ready herbicide which accompany a majority of genetically modified products and produced by biotechnology company, Monsanto (now Bayer) has been said to be a possible cancer causing agent. (According to a report by the cancer research arm of the World Health Organisation in 2015)

In August 2018, Monsanto was ordered to pay a fine of \$289 million to a user of one of its chemical products in San Francisco who was diagnosed of cancer. The court order was so because the company failed to warn citizens of the health impacts of its products.ⁱⁱ

Several countries have taken a stand against genetically modified products because they have found that these products do not give the benefits or show characteristics that they are acclaimed to possess. The South African Government, in October 2018 declined authorisation of genetically modified maize for commercial production as field trial proved that data provided by the producer, Monsanto-Bayer were insufficient to

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demonstrate the claimed drought tolerance and insect resistance efficacyⁱⁱⁱ. In November 2018, the Ministry of Agriculture in Tanzania ordered the Agricultural Research Institute of the country to stop ongoing trials and to destroy remnants of GM products with immediate effect^{iv}. In Kenya, stakeholders in the agricultural sector urge their government to review policies^v made with regards to genetically modified foods as these prove counterproductive in the long run. On glyphosate use, the German ministry of environment in November 2018 said that they would use all legal options available to end^{vi} the use of glyphosate-based weed-killers and added that Germany wanted to change the approval process for all pesticides.

Modern biotechnology presents peculiar problems for a society such as Nigeria and actions that are taken to enable people make informed choices in other places like Europe and North America would be difficult to implement here. A case in point is the labelling of products made with/ of genetically modified organisms (GMOs). The largely informal market system in Nigeria will not allow for the labelling of these products and thus people would eat foods that are harmful without their knowledge.

Products of genetic engineering and harmful herbicides are said to be in Nigerian markets but little or nothing is being done to regulate or check them. The Director of the National Biosafety Management Agency (NBMA) mentioned during a twitter chat in February 2018 that there are genetically modified food products in our markets but how many Nigerians know about these products? Very few.

2. OBJECTIVE OF THE SURVEY

Health of Mother Earth Foundation recognized the need to examine our market shelves to confirm the presence of genetically modified products to further increase awareness on their implications. The main objective of the survey was to identify food products which are clearly labeled as:

- I. being genetically modified or being engineered products
- II. containing genetically modified ingredients or
- III. likely containing or having genetically modified ingredients by reason of which country they are exported from.

The survey also examined herbicides sold in markets across the nation to ascertain the presence of glyphosate, suspected to be carcinogenic but which is often a constituent of these herbicides.

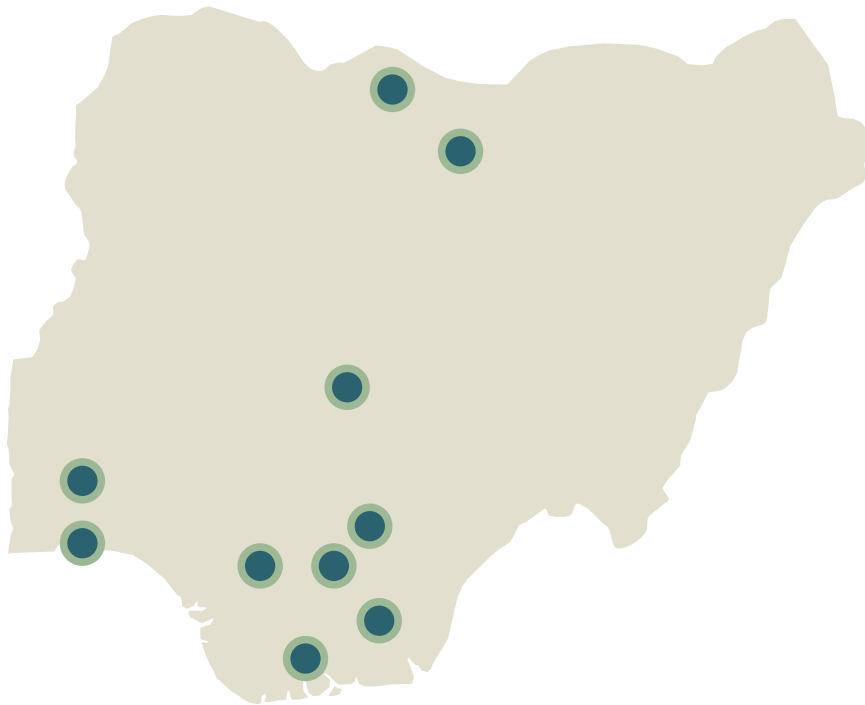
The result of the survey will aid advocacy for a ban on genetically modified food products, glyphosate-containing herbicides and for better protection of our food systems and environment.

3. METHODOLOGY

The survey was carried out in 10 major cities and about 10 shops/ supermarkets were visited per city. In addition to checking whether or not food products were made of genetic engineering or contained genetically modified ingredients, the survey took into account the companies producing the items and in what countries. The survey also records the manufacturing and expiry dates on products.

Cities in which survey was carried out

- Lagos, Lagos State
- Port Harcourt, Rivers State
- Abuja, FCT
- Kano, Kano
- Benin City, Edo State
- Uyo, Akwa Ibom State
- Ibadan, Oyo State
- Enugu, Enugu State
- Katsina, Katsina State
- Onitsha, Anambra State



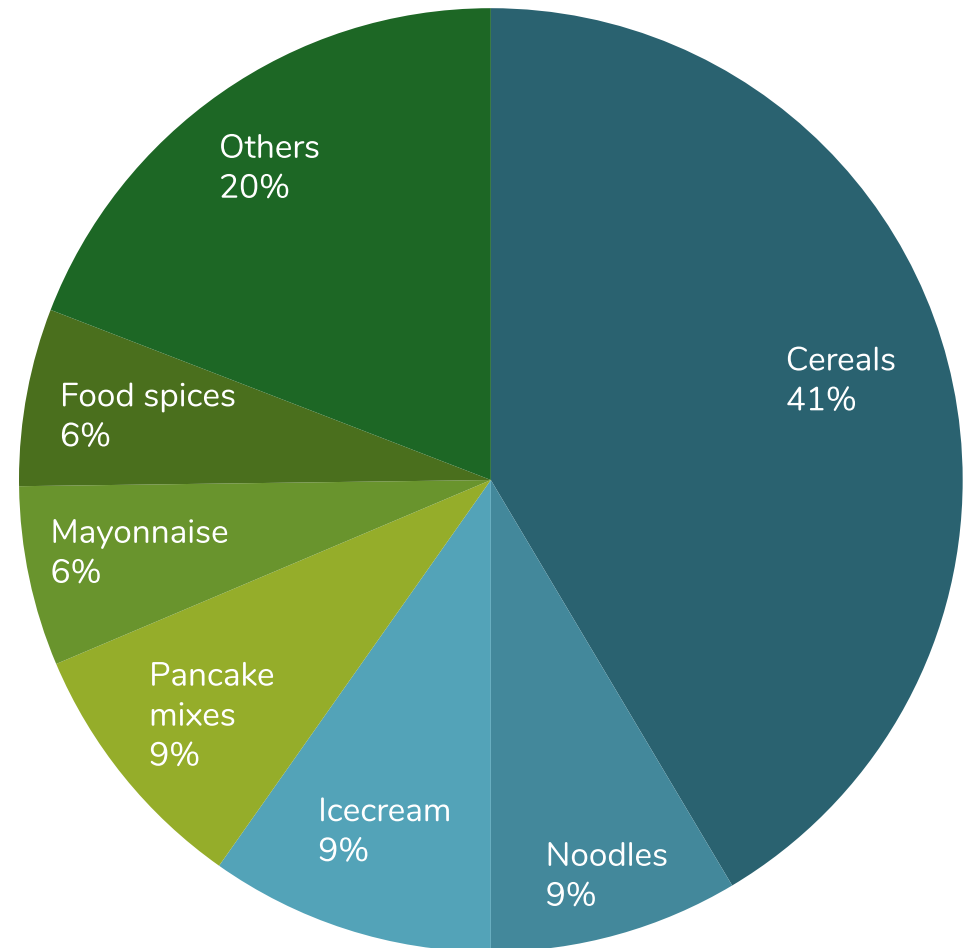
3.1. Products that got special attention

- I. Cereals (rice, wheat, millet, corn, oat) and their by-products especially corn (maize) products
- II. Vegetable oils
- III. Biscuits
- IV. Sweets
- V. Products having soy
- VI. Products made in USA, Canada, Brazil, Australia, Argentina, Chile, Costa Rica, Uruguay, Paraguay, Colombia, Mexico and other South American countries. Products from China, India, Pakistan, South Africa, Spain, Portugal and Czech Republic
- VII. Roundup Ready and other glyphosate containing herbicides.

4. RESULT

Products labeled as produced with genetic engineering or as containing genetically engineered ingredients were seen in seven (7) cities and were thirty (32) in number. They include: cereals, mayonnaise/salad creams, biscuits, chocolates, ice cream, noodles, cake/pancake mix, food spices, vegetable oils and were mostly imports from USA, China, India, South Africa. Genetically modified ingredients labeled were largely corn and soy.

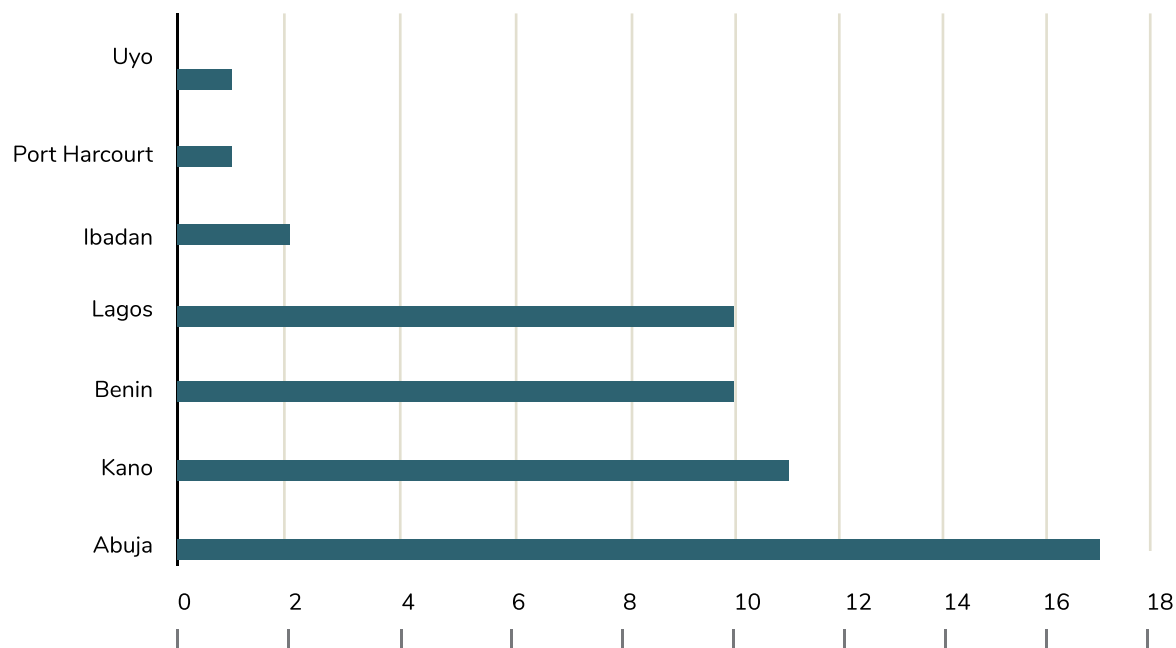
4a. Groups of products seen to be genetically modified or having genetically modified ingredients



4b. Number of genetically modified products seen per city

S/N	City	Number of GM Products
1	Abuja	17
2	Kano	11
3	Benin	10
4	Lagos	10
5	Ibadan	2
6	Uyo	1
7	Ibadan	1

In each of the cities, many of the products were replicated in more than one shop and some of them were produced in different flavours (counted once). Also, similar products were identified in more than one city.



In some of the cities where survey was carried out, it was difficult to take data as shop owners were apprehensive and disallowed the process. Thus records are low or absent in some places.

Some products sampled, though they were not labeled clearly as being produced with genetic engineering, had ingredients such as soya lecithin, maltodextrin and aspartame which are suspected to be genetically modified especially those imported from USA. Many other products were seen to have the inscription “modified” on some of their ingredients e.g. modified starch, modified corn flour or potato starch. While modified starch for example does not always mean that the starch is produced

from genetically modified grains, there is likelihood for this. A number of persons have indicated that they get allergenic reactions to modified starches.

Some products were labeled non-GMO and had the Non-GMO project verified tag. For example, there were packages of long grain, short grain, brown rice which were labeled non-GMO. The rice was mostly seen to be produced in India. Other products which were labeled non-GMO includes: Oats, chunky nuts, biscuits, infant formula (cereal), apple cider vinegar.

On manufacturing/expiry dates, some of the products sampled did not include manufacturing dates; they had only expiry dates. Also, a lot of the products did not state the Nigerian marketers/distributors.

Overall, the open markets were less tolerant and objected to pictures of items being taken in their shops. Also, due to the hostility of shop owners/attendants, the exercise was done in haste and some indices were not captured.

On the lookout for herbicides containing glyphosate, it was seen that a majority (over 90%) of herbicides in the markets contain glyphosate as an active ingredient. Some of the herbicides seen to contain glyphosate as an active ingredient are: Roundup, Grassate, Drystate, Glyspring, Royasate, Glyphosate, Delsate, Tackle, Paraforce, Glyphotex, DD Force, Pendimethalin and vinash.





4.1. Survey Reports

4.1.1. Survey Report: Abuja, FCT

Shop A							
S/N	Name of Product	Nature of product	Made in which country	Made/Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Great Grains Cereal	Cereal	USA	Post Consumer Brand, LLC	-	Exp: May 2019	Partially produced with genetic engineering
2	Honey Bunches of Oat Cereal	Cereal	USA	Post Consumer Brand, LLC		Exp: 27/01/19	Partially produced with genetic engineering
3	Multi Grain Cheerios	Cereal	USA	General Mills Sales Inc.		-	Partially produced with genetic engineering
4	Extended Life Vegetable Oil	Liquid	U.K	KTC(Edibles)Ltd	-	-	Produced with genetically modified soya
5	Oreo O's Cereal	Cereal	USA	Post Consumer Brand, LLC	-	Exp: 28/04/19	Partially produced with genetic engineering
6	Cocoa Puffs	Cereal	USA	General Mills Sales Inc.	-	-	Produced with genetic engineering
7	Peach Cheerios	Cereal	USA	General Mills Sales Inc.	-	-	Partially produced with genetic engineering

Shop B

S/N	Name of Product	Nature of product	Made in which country	Made/Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Betty Crocker Super Moist Cake Mix	Solid	USA	General Mills Sales Inc.	-	-	Partially produced with genetic engineering
2	Remia Mayonnaise	Cream	Netherlands	Remia CV	-	-	Produced with genetically modified soy
3	Aunt Jemima Syrup	Liquid	USA	The Quaker Oats Company	-	Exp: 15/04/19	Produced with genetic engineering
4	Aunt Jemima Cake and Waffle Mix	Solid	USA	The Quaker Oats Company	-	-	Partially produced with genetic engineering
5	Multi Grain Cheerios	Cereal	USA	General Mills Sales Inc.	-	-	Partially produced with genetic engineering
6	Extended Life Vegetable Oil	Liquid	U.K	KTC(Edibles)Ltd	-	-	Produced with genetically modified soya

Shop C							
S/N	Name of Product	Nature of product	Made in which country	Made/Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Kellogg's Conflakes	Cereal	USA	General Mills	Kellogg Sales Co	-	Contains genetically modified organisms
2	Bokomo Conflakes	Cereal	South Africa	Pioneer foods	-	-	Contains genetically modified maize
3	Bokomo ProNutro Cereal	Cereal	South Africa	Pioneer foods	-	-	Contains genetically modified maize, soya
4	Remia Mayonnaise	Cream	Netherlands	Remia CV	-	-	Produced with genetically modified soy
5	Blue Bunny Icecream	Cream	USA	Wells Enterprises Inc.	-	Exp: 13/12/19	Partially produced with genetic engineering

Shop D							
S/N	Name of Product	Nature of product	Made in which country	Made/Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Blue Bunny Icecream	Cream	USA	Wells Enterprises Inc.	-	Exp: 13/12/19	Produced with genetic engineering

Shop E

S/N	Name of Product	Nature of product	Made in which country	Made/ Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Honey Nut Chex	Solid	USA	General Mills	-	-	Produced with genetic engineering
2	Blue Bunny Icecream	Cream	USA	Wells Enterprises Inc.	-	Exp: 13/12/19	Produced with genetic engineering
3	Honey Bunches of Oat Cereal	Cereal	USA	Post Consumer Brand, LLC	-	Exp: 27/01/19	Partially produced with genetic engineering
4	Fruity Pebbles Cereal	Cereal	USA	Post Consumer Brand, LLC	-	-	Partially produced with genetic engineering
5	Great grains Cereal	Cereal	USA	Post Consumer Brand, LLC	-	Exp-May 2019	Partially produced with genetic engineering

Shop F

S/N	Name of Product	Nature of product	Made in which country	Made/ Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Honey Bunches of Oat Cereal	Cereal	USA	Post Consumer Brand, LLC	-	Exp: 27/01/19	Partially produced with genetic engineering
2	Lucky Charms Cereal	Cereal	USA	General Mills Sales Inc.	-	-	Produced with genetic engineering

Some photos from survey in Abuja



Figure 1a: Lucky Charms Cereal



Figure 2a: Lucky Charms Cereal



Figure 3a: Aunt Jemima Cake/Waffle Mix



Figure 1b



Figure 2b



Figure 3b



Figure 4a: Great Grains Cereal



Figure 5a: Honey Nut Chex Cereal



Figure 6a: Fruity Pebbles Rice Cereal



Figure 4b



Figure 5b



Figure 6b

4.1.2. Survey Report: Benin City, Edo State

Shop A							
S/N	Name of Product	Nature of product	Made in which country	Made/Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Betty Crocker Dark Chocolate Cake Mix	Solid	USA	General Mills Sale, INC.		-	Partially produced with genetic engineering
2	Nature Valley (Chocolate bar)	Solid	USA	General Mills Sale, INC.,		-	Partially produced with genetic engineering
3	Cheerios Cereal	Cereal	USA	General Mills Sale, INC.,		-	Said to likely contain trace amounts of genetically modified material
4	Extended Life Vegetable Oil	Liquid	U.K	KTC(Edibles)Ltd	-	-	Produced with genetically modified soya
5	Remia Mayonnaise	Cream	Netherlands	Remia CV	-	-	Produced with genetically modified Soy

Shop B

S/N	Name of Product	Nature of product	Made in which country	Made/ Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Oreo O's Cereal	Cereal	USA	Post Consumer Brands LLC	-	-	Partially produced with genetic engineering
2	Cocoa Puffs	Cereal	USA	General Mills Sale, INC.,	-	-	Partially produced with genetic engineering
3	Bisquick pancake and baking mix	Solid	USA	General Mills Sale, INC.,	-	-	Partially produced with genetic engineering
4	Heinz Sweet Relish	Cream	USA	Kraft Heinz Food Company	-	-	Partially produced with genetic engineering
5	Aunt Jemima Syrup	Liquid	USA	The Quaker Oats Company	-	-	Produced with genetic engineering

Some photos from survey in Benin City



Figure 7a: Betty Crocker Cake Mix



Figure 8a: Nature Valley Granola Bar



Figure 9a: Cheerios (Whole Grain Oats)



Figure 7b

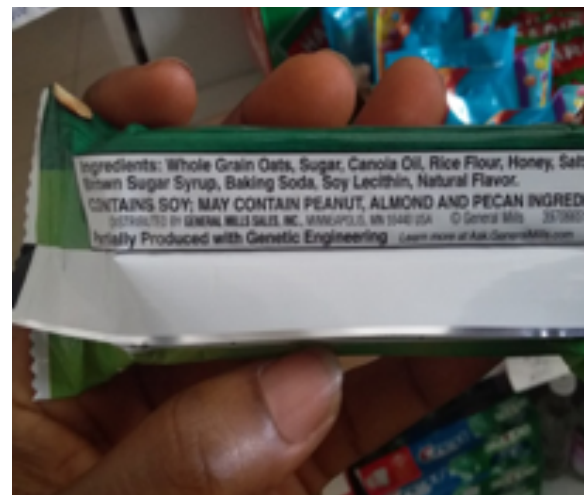


Figure 8b

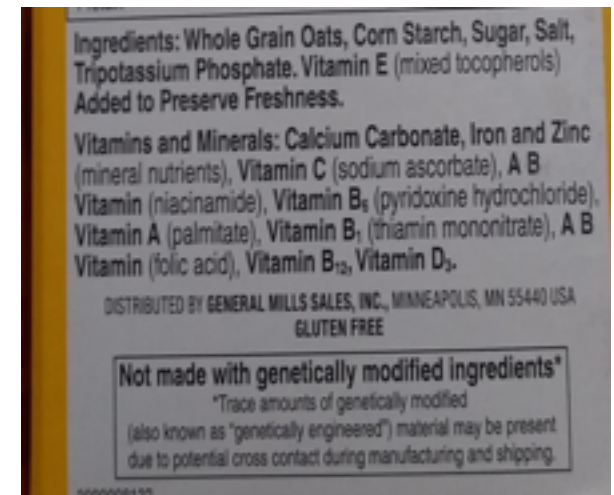


Figure 9b



Figure 10a: Extended Life Vegetable Oil



Figure 11a: Dark Chocolate Cake Mix



Figure 12a: Remia Mayonnaise



Figure 10b



Figure 11b



Figure 12b



Figure 13a: Oreos Cereal



Figure 14a: Cocoa Puffs



Figure 15a: Heinz Sweet Relish



Figure 13b



Figure 14b



Figure 15b



Figure 16a: Bisquik Pancake & Baking Mix



Figure 16b

4.1.3. Survey Report: Kano, Kano State

Shop A							
S/N	Name of Product	Nature of product	Made in which country	Made/ Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Blue bunny ice-cream	Liquid	USA	Wells Enterprises Inc	-	-	Produced with genetic engineering
2	Knorr — Tasty Chicken	Liquid	South Africa	Unilever	-	-	Contains genetically modified maize flour
3	Knorr Barbecue Spice-Tasty Rich Oxtail	Solid	South Africa	Unilever	-	-	Contains genetically modified maize flour

Shop B							
S/N	Name of Product	Nature of product	Made in which country	Made/ Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Souper Meal	Solid	USA	Nissin Foods	-	Exp: 05/03/19	Partially produced with genetic engineering
2	Yakisoba (Japanese Noodles)	Solid	USA	Maruchan Inc 2015	-	Exp: 05/11/19	Partially produced with genetic engineering
3	Ramen Noodle Soup	Solid	USA	Maruchan Inc 2015	-	Exp: 5/05/19	Partially produced with genetic engineering

Shop C

S/N	Name of Product	Nature of product	Made in which country	Made/ Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Aunt Jemima Original Syrup	Liquid	USA	The Quaker Oats Company	-	-	Produced with genetic engineering

Shop D

S/N	Name of Product	Nature of product	Made in which country	Made/ Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Kellogg's Corn Flakes	Cereal	USA	General Mills	Kellogg Sales & Co	-	Contains genetically modified organisms
2	Cinnamon Toast Crunch	Cereal	USA	General Mills	General Mills Sales INC	-	Partially produced with genetic engineering
3	Fruity Cheerios Cereal	Cereal	USA	General Mills	General Mills Sales INC	-	Partially produced with genetic engineering
4	Lucky Charms Cereal	Cereal	USA	General Mills	General Mills Sales INC	-	Partially produced with genetic engineering

Some photos from survey in Kano



Figure 17a: Blue Bunny Ice Cream



Figure 18a: Aunt Jemima Syrup



Figure 19a: Cinnamon Toast Crunch



Figure 17b



Figure 18b



Figure 19b



Figure 20a: Yakisoba Noodles



Figure 21a: Kellogg's Cornflakes



Figure 22a: Knorr Tasty Rich Oxtail



Figure 20b



Figure 21b



Figure 22b

4.1.4. Survey Report: Lagos, Lagos State

Shop A							
S/N	Name of Product	Nature of product	Made in which country	Made/ Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Caramellos (Cadbury flavoured ice cream)	Cream	USA	Wells Enterprises Inc	-	-	Produced with genetic engineering
2	Blue bunny toasted almond fudge ice cream	Cream	USA	Wells Enterprise INC	-	-	Produced with genetic engineering
3	Blue bunny (frozen yogurt vanilla cream) ice cream	Cream	USA	Wells Enterprise INC	-	-	Produced with genetic engineering

Shop B							
S/N	Name of Product	Nature of product	Made in which country	Made/ Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Bluebunny Vanilla Bean ice cream	Cream	USA	Wells Enterprises Inc	-	-	Produced with genetic engineering
2	Blue Ribbon ice cream	Cream	USA	Wells Enterprise INC	-	-	Produced with genetic engineering

Shop C

S/N	Name of Product	Nature of product	Made in which country	Made/ Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Bluebunny Vanilla Bean ice cream	Cream	USA	Wells Enterprises Inc	-	-	Produced with genetic engineering
2	Blue Ribbon ice cream	Cream	USA	Wells Enterprise INC	-	-	Produced with genetic engineering

Shop D

S/N	Name of Product	Nature of product	Made in which country	Made/ Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	BOKOMO (pro nutro, banana flavour)	Cereal	South Africa	Pioneer foods	-	-	Contains genetically modified maize, soya
2	BOKOMO (pro nutro, maize)	Cereal	South Africa	Pioneer foods	-	-	Contains genetically modified maize, soya

Shop E

S/N	Name of Product	Nature of product	Made in which country	Made/ Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Bokomo (pro nutro, Strawberry)	Cereal	South Africa	Pioneer Foods	-	-	Contains genetically modified maize, soya
2	Blue Bunny (double Strawberry swirl)	Liquid	USA	Wells Enterprise INC	-	-	Produced with genetic engineering

Shop F

S/N	Name of Product	Nature of product	Made in which country	Made/ Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Blue Bunny (Butter Pecan)	Cream	USA	Wells Enterprise INC	-	Exp: 15/08/2019	Produced with genetic engineering
2	Blue Bunny (Vanilla)	Cream	USA	Wells Enterprise INC	-	-	Produced with genetic engineering

Shop G

S/N	Name of Product	Nature of product	Made in which country	Made/ Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Meat Feast Deep Pan Pizza	Solid	India	Horeca Products	-	-	Tomato
2	Ham & Pineapple Thin pizza	Solid	India	Horeca Products	-	-	Tomato

Shop H

S/N	Name of Product	Nature of product	Made in which country	Made/ Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Bisquick Pancake and Baking Mix	Solid	USA	General Mills Sales Inc	-	-	Produced with genetic engineering

Shop I

S/N	Name of Product	Nature of product	Made in which country	Made/Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Aunt Jemima	Solid	USA	The Quaker Oat Company	Domino pizza	-	Produced with genetic engineering
2	Betty Crocker delights (super moist dark chocolate)	Solid	USA	General Mills Sales Inc	Domino pizza	-	Produced with genetic engineering
3	Betty Crocker delights (butter Pecan Cake mix)	Solid	USA	General Mills Sales Inc	Domino pizza	-	Produced with genetic engineering

Shop J

S/N	Name of Product	Nature of product	Made in which country	Made/Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	BOKOMO (pro nutro, wheat free)	Cereal	South Africa	Pioneer Foods	-	-	Contains genetically modified Maize, Soya
2	BOKOMO (Corn flakes original flavour)	Cereal	South Africa	Pioneer Foods	-	-	Contains genetically modified maize

Some photos from survey in Lagos



Figure 23a: ProNutro Protein Cereal



Figure 24a: Blue Ribbon Ice Cream



Figure 25a: Bokomo Cornflakes



Figure 23b



Figure 24b



Figure 25b



Figure 26a: Blue Bunny Ice Cream



Figure 26b

4.1.5. Survey Result: Port Harcourt, Rivers State

Shop A							
S/N	Name of Product	Nature of product	Made in which country	Made/ Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Fourre Chocolat	Solid	France	-	-	Mfd:11:20:17 Bb:05:20:19	Soya Lecithin (Gmp)

Some photos from survey in Port Harcourt



Figure 27a: Fourre Biscuit



Figure 27b

4.1.6. Survey Result: Ibadan, Oyo State

Shop A							
S/N	Name of Product	Nature of product	Made in which country	Made/ Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Crispy Crunch	Cereal	South Africa	Bokomo Foods	-	Exp: 2019	Contains genetically modified maize

Shop B							
S/N	Name of Product	Nature of product	Made in which country	Made/ Distributed by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Bokomo Pro Nutro Cereal	Cereal	South Africa	Bokomo Foods	-	2018 - 2019	Contains genetically modified maize, soya

Shop C

S/N	Name of Product	Nature of product (solid, grains, liquid, etc.)	Made in which country	Made by	Marketed in Nigeria by	Manufacture/ Expiry Date	Glyphosate present (Yes or No)
1	Paraforce	Liquid	China	Beijing Medium Biochemistry Co. Ltd.	-	2015-2020	Yes
2	Glyphotex	Liquid	China	Anhul Zhongshan Chemical Industry Co. Ltd.	Kuru Zango Int. Co. Ltd. No. 12, Unity Rd. Kano.	01-08-2018-2021	Yes
3	Round up	Liquid	China	Averstar Inc	Jubali Agrotech	2017-2022	Yes
4	DD Force	Liquid	China	Hubei Sanonda Co. Ltd.	Jubali Agrotech	04-05-2017-2020	Yes
5	Pendimethalin	Liquid	India	Amber Crop Science Pvt. Ltd	Jubali Agrotech	2018-2021	Yes

Some photos from survey in Ibadan



Figure 28a: ProNutro Protein Cereal



Figure 28b

4.1.7. Survey Result: Uyo, Akwa Ibom State

Shop A							
S/N	Name of Product	Nature of product	Made in which country	Made by	Marketed in Nigeria by	Manufacture/ Expiry Date	GM product/ ingredients(s)
1	Bravo Mayonnaise	Cream	France	Prudit Pour Fabrico Para	-	Mfg: 17/01/17 Exp: 03/01/19	Contains genetically modified Soy oil

Shop B							
S/N	Name of Product	Nature of product (solid, grains, liquid, etc.)	Made in which country	Made by	Marketed in Nigeria by	Manufacture/ Expiry Date	Glyphosate present (Yes or No)
1	Delsate - Total systemic herbicide	Liquid	Nigeria	Candel FZE	Candel Company Ltd.	Mfd:20/07/17 BB:19/07/19	Yes
2	Vinash	Liquid	China	Zhejiang Jinfanda Biochemical Co. Ltd.	Wacot Limited, Lagos.	Mfg:Oct.25,2017 Exd:Oct.25,2020	Yes

Shop C

S/N	Name of Product	Nature of product (solid, grains, liquid, etc.)	Made in which country	Made by	Marketed in Nigeria by	Manufacture/ Expiry Date	Glyphosate present (Yes or No)
1	Grassat-complete systemic herbicide	Liquid	China	Nanjing Firmsea International Co. Ltd.	Dumeck AgroVentures Ltd.	Mfd:2018/03/20 Exp:2021/03/20	Yes
2	Tackle - total systemic herbicide	Liquid	Nigeria	Candel FZE	Candel Company Limited	-	Yes
3	Drysate - non selective systemic folia applied herbicide	Liquid	China	Schuan Leshan Fuhau Tongola Agrochemicals Technology Co. Ltd.	Crop Care Ltd. Kanu Nigeria	Mfd:Feb.10,2018 Exp:Feb.10,2021	Yes

Some photos from survey in Uyo



Figure 29a: Bravo Mayonnaise



Figure 30: Drysate



Figure 32: Grassa

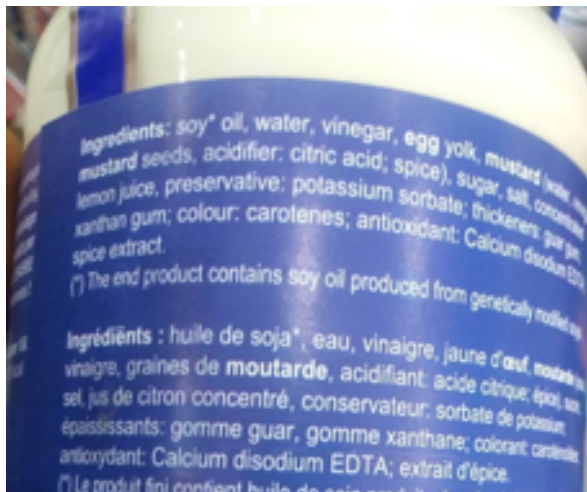


Figure 29b



Figure 31: Tackle



Figure 33: Delsate

5. CONCLUSION

The result from this survey confirms that products of genetic engineering are abundant in our shops and malls but very few persons aware of their makeup or implications.

The importance of labeling is highlighted as it eased the research procedure and also enables informed decisions by the public. However, it is noted that a smaller percentage of the general public purchase food from the large malls/supermarkets where most of the products with labels were seen. Majority of persons use the general markets where products are sold in cups and measures and where it is difficult to see labels. Also, items which are sold by the roadside and cooked food sold at restaurants cannot be labeled and thus people would still consume foods made from genetically modified products without their knowledge.


Scientific research ^{vii} on GM foods has shown severe health defects such as: impaired immune systems (resulting to allergenicity), bleeding stomachs, abnormal and potentially precancerous cell growth in the intestines, impaired blood cell development, misshaped cell structures in the liver, pancreas and testicles, altered gene expression and cell metabolism, liver

and kidney lesions, partially atrophied livers, inflamed kidneys, less developed organs, reduced digestive enzymes, higher blood sugar, inflamed lung tissue, stunted growth, increased death rates and higher offspring mortality as well.

It is appalling that these products abound in our markets and are being consumed without regulation or strict measures to check their importation; hence the need for more intense sensitization of the public about these products. Shop owners need to be aware of the implications of the products that they have on their shelves and consumers have the right to know what they are consuming.

HOMEF calls the attention of the government of Nigeria to ensure that agencies saddled with the responsibility of checking food products and ensuring food safety for example the National Biotechnology Development Agency (NBMA), The National Agency for Food, Drug Administration and Control (NAFDAC), The Consumer Protection Council (CPC) and the Nigerian Customs Service are awake to the threats posed by GMOs and they take firm positions/strategies against further dealings with these products in Nigeria.

Health of Mother Earth Foundation demands an outright ban on GMOs and associated products and call for an enactment of strict measures to discontinue their importation. We advocate for consumption of wholesome/healthy foods and a transition to Agroecology, an innovative system of farming which protect and enhance ecosystems, support small holder farmers and increase productivity.



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End Notes

ⁱ Not on Our Plates: Nigeria Does Not Need GMOs <http://afjn.org/documents/2017/06/gmo-fact-sheet-by-health-of-mother-earth-foundation.pdf>

ⁱⁱ Court orders Monsanto to pay \$289 million in Roundup cancer trial <http://climatoreporters.com/2018/08/court-orders-monsanto-to-pay-289-million-in-roundup-cancer-trial/>

ⁱⁱⁱ South Africa rejects Monsanto's GM drought-tolerant maize. <https://www.environewsnigeria.com/south-africa-rejects-monsantos-gm-drought-tolerant-maize/>

^{iv} Ministry of Agriculture Orders Tanzania Agriculture Research Institute to Stop Ongoing GMO Trials. <https://wazo-huru.blogspot.com/?m=1>

^v Government Urged To Review Its Policies On GMO. <https://kenyanwallstreet.com/government-urged-to-review-its-policies-on-gmo/>

^{vi} Germany to use all legal options to end use of glyphosate. <https://www.yenisafak.com/en/world/germany-to-use-all-legal-options-to-end-use-of-glyphosate-3465533>

^{vii} Not on Our Plates: GMO Factsheet: <http://afjn.org/documents/2017/06/gmo-fact-sheet-by-health-of-mother-earth-foundation.pdf>

About Health of Mother Earth Foundation (HOMEF)

HOMEF is an ecological think tank and advocacy organization registered in Nigeria. Nigeria is our base but Africa is our focus. We work to bridge the yawning gap between policy/ decisions made by government and the actual needs at the grassroots.

HOMEF works with local communities to build and share knowledge. We recognize that current global crisis have systematic roots and the prevalent paradigms of development and growth based on competition will lead to critical destruction of biodiversity and continued destructive extraction of natural resources as well as dependency on risky technologies. In all these concerns of grassroots communities are ignored, repressed or exploited. We work to build solidarity and ensure justice.

Our Core Values: Justice& Equity in all circumstances, People and the planet in harmony and free from exploitation, Dignity (Respect), Action (Solidarity), Knowledge

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HOMEF
HEALTH OF MOTHER EARTH foundation


Selected Publications by HOMEF



1. Eco-Instigator (quarterly journal)
2. Resource Democracy
3. Living in Fear-Juan Lopez Villar
4. Community Dialogue Guide (Oil/Gas)
5. Community Dialogue Guide (Forest)
6. Community Dialogue Guide (FishNet)
7. Not on our Plates: Nigeria Does Not Need GM Food
8. Community Dialogue Guide (Food and Farming Systems)
9. Oil Politics: Echoes of Ecological Wars-Nnimmo Bassey
10. Community Guide to Environmental Monitoring and Reporting
11. Oil, Power and a Sign of Hope-Klaus Steiglitz with Sabine Pamperrien
12. Nigeria's Biosafety Management Agency Act 2015: In Whose Interest?
13. Resistance to the Military-Corporate Wedlock in Nigeria and Beyond-Nnimmo Bassey (With TNI)
14. To Mint an Illusion: Economic + Poverty Growth in an Extractive Rentier State-Nnimmo Bassey and Patrick Bond
15. Beyond Oil: Reimagining Development in the Niger Delta-Ken Henshaw, Ify Malo, Irikefe V. Dafe, Nnimmo Bassey





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