

FLATOXINS

WHAT ARE AFLATOXINS?

Poison produced by moulds when they attack produce which is not well-dried.



Once in food or feed, this poison is difficult to remove even by cooking or roasting.

WHY CARE ABOUT AFLATOXINS NOW!!

This poison affects agriculture, health and trade.



How? At high levels, aflatoxins cause death of humans and animals. It is one of the major causes of liver cancer.



In children, leads to stunting and kwashiorkor thus reduced growth. Generally, aflatoxin weakens the body immune system leading to other illnesses.



It can kill all animals when taken in higher quantities and also reduces productivity such as egg production and growth.



It affects trade, social and economic status. We lose money as we cannot sell contaminated produce in the national, regional and international markets.

Which produce are most contaminated?









Mainly produce dried at farm and their products;

- Cereals: maize, sorghum, rice, millet
- Legumes: groundnuts, soyabean
- Oil crops: sunflower and simsim or sesame
- Dry spices like chilli, ginger, turmeric
- Dried roots & tubers: cassava, sweet potato (amukeke)
- Most dried produce including fish (mainly silver fish/mukene)
- Processed products;
- Animal feeds, peanut butter, flours (groundnut, maize, soya, mukene, millet, cassava, sorghum) and pressed simsim or sunflower cake etc.
- Dairy and poultry products: milk and products, and eggs when animals feed on contaminated feeds

Why are aflatoxins common in our produce?

Most people are not aware of the poison and do not apply good agricultural, handling, storage, transportation and processing practices.















Ministry of Agriculture, Animal Industry and Fisheries

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AFLATUXINS WHAT SHOULD FARMERS DO ON-FARM TO PREVENT AFLATOXINS?

When the crop is in the field, farmers should follow recommended good agricultural practices so that the crop remains healthy throughout the growth period, to resist mould infection.

YOUR HEALTH, YOUR WEALTH, YOUR LIFE!!!

Good Practices to do



Timely land preparation and planting in rows with good spacing

Bad Practices to avoid



Do not dry crops in the field especially maize and groundnuts



Timely application of recommended fertilizers

Control pests and diseases using non chemical and approved chemicals in correct dozes, following manufacturers' directions for use

> Good water management especially irrigation



Do not damage produce during harvesting e.g. groundnut pods



Do not harvest late



Harvest on time as soon as crop is ready, minimising damage of produce



Never place produce on bare ground during harvesting





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AFLATOXINS WHAT SHOULD FARMERS DO DURING DRYING, SHELLING AND THRESHING TO PREVENT AFLATOXINS? YOUR HEALTH, YOUR WEALTH, YOUR LIFE!!!



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AFLATOXINS WHAT SHOULD FARMERS DO DURING STORAGE TO PREVENT AFLATOXINS? YOUR HEALTH, YOUR WEALTH, YOUR LIFE!!!



FEED FEUTURE

) Bad Practices to avoid



Do not pile bagged produce in a store without good aeration



Do not heap unbagged produce in store especially maize



Do not place bagged produce directly on the floor



Do not mix new with old season produce



produce

Do not store produce in torn gunny or plastic bag





AFLATOXINS WHAT SHOULD FOOD PROCESSORS DO TO PREVENT AFLATOXINS? **IT IS NEVER TOO LATE!!**



FEEDFUTURE

Do not process poor quality produce (mouldy / rotten, broken, damaged, shriveled, discolored)

> Do not add water to raw produce for processing



Do not store processed products in dirty, unconducive environment





FEED FEUTURE The U.S. Government's Global Hunger & Food Security Initiative

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AFLATOXINS WHAT SHOULD FEED PROCESSORS DO TO PREVENT AFLATOXINS? SAVE OUR ANIMALS AND US!!!







AFLATOXINS WHAT SHOULD CONSUMERS DO TO PREVENT AFLATOXINS POISONING? YOUR HEALTH, YOUR WEALTH, YOUR LIFE!!!



Consume well dried, clean, sorted and safe foodstuffs

Good Practices to do



Store food in a clean and dry environment



Process your own clean and safe food e.g. pounding groundnuts where possible



Buy foodstuffs with a quality mark



EED FUTURE U.S. Government's Global Hunger & Food Security Initiative

Diversify daily dietary intake and deliberately consume fruits and vegetables



Do not store foodstuffs in a dirty, disorganized environment







Do not consume mouldy foodstuffs



Do not purchase and consume foodstuffs from unhygienic premises