USDA-Africa Partnerships to Mitigate Aflatoxins

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USDA’s Role as a Connector

International Community & Donor Agencies

USDA

On-ground Partners
USDA/FAS Officers are RESOURCES

• Global Network of Foreign Service Officers
• 93 Offices Covering 171 Countries
• USDA/FAS Presence in Africa:
  – Accra, Ghana
  – Addis Ababa, Ethiopia
  – Algiers, Algeria
  – Cairo, Egypt
  – Dakar, Senegal
  – Nairobi, Kenya
  – Pretoria, South Africa
  – Pretoria, South Africa
  – Rabat, Morocco

• SPS Advisors
  – Accra, Nairobi, Pretoria – covering West, East, & Southern Regions
Aflatoxin Mitigation Program

Vision: Reduced Illnesses and Increased Trade

• **Goal**: Improve food safety and human health by:
  — Reducing aflatoxin incidence
  — Building policy, regulatory, and technical capacities

• **Approach**: Leverage on-ground public and private-sector partnerships to implement life-saving and trade-enhancing advances in agronomy, policy, and enforcement.
Biocontrol Development
Partners: University of Arizona, IITA

Policy Development
Partner: AATF, IITA

Trade & Standards Enforcement
Partners: North Carolina State University, AATF, COMESA

Mutual Recognition of efficacy data
Partners: University of Arizona, IITA

Product Registration, Mass Production

Reduced aflatoxin, Increased trade
Biocontrol Development

Map courtesy of IITA

Products under testing in farmers’ fields

Product ready for registration

Area-wide registration of SN01 by CILSS

Product available

Strain development in progress

Costa Rica

Haiti

Senegal

The Gambia

Burkina Faso

Ghana

Nigeria

Rwanda

Uganda

Kenya

Burundi

Tanzania

Malawi

Mozambique

AFLASAFE

The Gambia

Burkina Faso

Ghana

Nigeria

Rwanda

Uganda

Kenya

Burundi

Tanzania

Malawi

Mozambique

AFLASAFE
Policy Development
Biocontrol Registration

Biopesticide Registration Guidance Document

A Guide to the Development of Regulatory Frameworks for Microbial Biopesticides in Sub-Saharan Africa

Provides roadmap to adoption of registration mechanism

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Trade and Standards Enforcement
Sampling and Testing Protocols

Provide statistically valid, standardized tests for aflatoxins in maize and ground nuts

- contaminated kernel

probe

lot 1

a) non-homogeneous

lot 2

b) homogeneous

- Truck
- Ship