



Aflatoxin-Safe Groundnut Production and Consumption in Ghana

Community Drama Video Facilitator's Guide



About SPRING

The Strengthening Partnerships, Results, and Innovations in Nutrition Globally (SPRING) project is a seven-year USAID-funded Cooperative Agreement to strengthen global and country efforts to scale up high-impact nutrition practices and policies and improve maternal and child nutrition outcomes. The project is managed by JSI Research & Training Institute, Inc., with partners Helen Keller International, The Manoff Group, Save the Children, and the International Food Policy Research Institute.

Disclaimer

This report is made possible by the generous support of the American people through the United States Agency for International Development (USAID) under the terms of the Cooperative Agreement AID-OAA-A-11-00031 (SPRING), managed by JSI Research & Training Institute, Inc. (JSI). The contents are the responsibility of JSI and do not necessarily reflect the views of USAID or the United States Government.

Recommended Citation

SPRING. 2017. Aflatoxin-Safe Groundnut Production and Consumption in Ghana: Community Drama Video Facilitator's Guide. Arlington, VA: Strengthening Partnerships, Results, and Innovations in Nutrition Globally (SPRING) project.

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Cover Photo: SPRING/Ghana

Aflatoxin-Safe Groundnut
Production and Consumption in
Ghana

Community Drama Video Facilitator's Guide

Contents

Introduction to the Aflatoxin Video Drama and Facilitator's Guide	1
Background	1
Overview of the Aflatoxin Video Drama	1
The Facilitator	2
Session One	3
Facts Emanating from Discussions During the Workshop	3
Session Two	5
Demonstration of Recommended Behaviours by Model Family and Possible Outcomes	5
Session Three	6
Behaviours that Increase the Risk of Aflatoxin Contamination	6
Wrap Up and Conclusion	7
Annex 1: Orientation for Facilitators	9
Annex 2: Data Collection Form for Facilitators	11
Tables	
Table 1. Video Language by District	1
Table 2. Facilitator's Notes, Session One	3
Table 3. Facilitator's Notes, Session Two	5
Table 4. Facilitator's Notes, Session Three	6

Introduction to the Aflatoxin Video Drama and Facilitator's Guide

Background

Groundnuts are a major legume crop in the northern regions of Ghana, where they provide important nutrients for physical development. When handled improperly, however, groundnuts can be highly toxic to humans. Certain types of moulds that grow on groundnuts can produce aflatoxins—toxic compounds which can cause immune-system suppression, gastrointestinal dysfunction, growth retardation, liver disease, and cancer.

SPRING is working to reduce aflatoxin contamination in groundnuts. Our strategy is to create awareness among groundnut farmers on aflatoxin management and control through Farmer Field Schools facilitated by agriculture extension agents (AEA) from the Ministry of Food and Agriculture.

As part of those efforts, we produced a video drama on aflatoxin for dissemination in SPRING project communities. The video covers the characteristics of aflatoxin contaminated groundnuts, possible effects of their consumption, and preventive measures to reduce contamination.

Overview of the Aflatoxin Video Drama

The video drama provides information on farming, harvesting, drying, and storage practices that expose groundnuts to aflatoxin contamination, characteristics of contaminated groundnuts, and recommended disposal methods. In the video, an agriculture extension agent is shown presenting this information during a workshop.

Two families are depicted in the video: the first, referred to here as the "adaptive family," demonstrates the recommended practices. The second family, referred to here as the "non-adaptive family," does not practice the recommended agronomic and consumption practices discussed during the workshop. The drama concludes with a summary of the recommended agronomic practices.

Table 1. Video Language by District

Language	District
Gonja	Central Gonja
Dagbani	Tolon
Likpankpaln	Mion
Kusaal	Bawku West
Gurune	Talensi

The drama was staged and recorded by five drama groups, each in one of five languages predominantly spoken in the SPRING/Ghana project districts (Table 1). The videos produced in the local languages include English subtitles for quick reference. The videos range from 18 to 27 minutes depending on the language.

The Facilitator

The post-viewing discussion must be facilitated by individuals who are well oriented on aflatoxin management and the use of audiovisual tools. They must also have facilitation and negotiation skills to ensure consensus building, especially when discussions deviate from the main theme or objective.

Instructions for the Facilitator

Before starting the video, please request that the community members do the following:

- Sit so that everybody can see and hear the video.
- Refrain from actions that can disturb others during the video.
- Hold all questions until the end of the video.
- Raise their hands if they wish to speak during the discussion time and ensure that one person speaks at a time. This will allow for orderly discussions.
- Agree that everyone's opinion matters. Refrain from raising their voices when disagreeing with someone or something.

Watching and reviewing the video

The facilitator should—

- give a brief background of the project and explain the objectives of the activity before showing the video
- play the entire video from start to finish during community-wide viewing
- lead discussion when the video is finished using suggested questions below as discussion starters
- allow as many perspectives as possible to be covered in the discussion
- try to draw consensus at the end of the discussion if there are divergent points of view
- ensure that when participants leave, they have the right information or facts, are in a positive frame of mind and are closer to adopting the recommended practices.
- note action points for follow-up.

Questions for Discussion

The discussion questions are divided into three sections; facts about aflatoxins, recommended behaviours to reduce contamination, and risks of contamination.

Session One

Facts Emanating from Discussions During the Workshop

Reflecting on the workshop scene in the video, facilitate a discussion using the following questions:

- 1. How did the AEA explain aflatoxin? / What is aflatoxin?
- 2. How can aflatoxin contaminate groundnuts?
- 3. What are the characteristics of aflatoxin contaminated groundnuts?
- 4. What are the possible effects of consuming groundnuts contaminated with aflatoxin?
- 5. How can we prevent groundnuts from being contaminated with aflatoxin?
- 6. How can we prevent humans or animals from consuming groundnuts contaminated with aflatoxin?
- 7. Recall the best practices mentioned by the AEA when he was summarizing the best practices or mention the good practices mentioned during the workshop.

Table 2. Facilitator's Notes, Session One

Aflatoxin	Aflatoxin is a toxic substance which contaminates grains like maize and groundnuts on the farm, during harvesting, transportation, processing, or storage.		
How can aflatoxin contaminate groundnuts?	 Excessive rainfall can cause groundnuts to rot and become toxic if proper attention is not given to the groundnuts. Weeds attract pests and diseases, and compete with groundnuts for nutrients, water, and light, increasing the risk of groundnut contamination. After harvesting, if the vines are left on the farm for long, they can become moist, which exposes them to potential aflatoxin contamination. If groundnuts are not properly dried and stored, high temperature may cause moisture, and groundnuts can become mouldy and toxic. Excessive moisture also weakens the shells of groundnuts and increases mould growth. 		
What are the characteristics of aflatoxin contaminated groundnuts?	They are usually dried-up, wrinkled, discoloured, mouldy and damaged. The contaminated groundnuts can also look black with some greenish decay on them. However, aflatoxin may also spread to groundnuts that look clean and normal; hence, early sorting and prevention are important.		
What are the possible effects of consuming groundnuts contaminated with aflatoxin?	 Carcinogenic (cancer-causing). Immunosuppressive (suppresses immunity, especially in children). Impaired growth in children (underweight and stunted, most often in children under two years). Babies are at risk from lactating mothers (secreted in milk). Decline in production capacity of livestock (such as production of eggs or milk). 		

How can we prevent groundnuts from being	Do not leave groundnuts on the farm after harvesting for too lon rainfall can cause the groundnuts to become rotten and toxic.	ng. Excessive
contaminated with aflatoxin?	Do not dry groundnuts on the bare ground because it is a major mould contamination.	source of
	Sweep compound before drying the nuts on cemented dry surface	ce.
	If the compound is not cemented, dry groundnuts on sheets like polythene, or raised platforms.	tarpaulin,
How can we prevent humans	Before consuming groundnuts, sort the good from the bad.	
or animals from consuming groundnuts contaminated with aflatoxin?	After sorting the good groundnuts from the bad ones, bury or burotten, mouldy or bad groundnuts.	urn the
Recall the best practices mentioned by the AEA	Harvest groundnuts immediately when they mature. Do not keep groundnuts for long on the farm or they will become contaminat moisture.	
	Dry groundnuts immediately after harvesting.	
	Always dry groundnuts away from bare soil, such as on cement fl tarpaulin, and turn to ensure that they dry evenly.	loor or
	Use new/clean polybags or sacks to store the groundnuts.	
	Do not mix wet and dry groundnuts together during storage.	
	Do not store wet groundnuts in tightly closed bags.	
	Do not heap groundnuts in shells on the floor in storage structur	es.
	Maintain well-ventilated rooms to prevent groundnuts from becoduring storage.	oming moist
	Do not place sacks of groundnuts directly on the storage floor, b platforms/pallets.	ut on raised
	Do not place groundnuts stored in bags against the wall. Leave s that you can occasionally inspect the stored groundnuts.	pace so
	Control insects and rodents during storage. Do not heap ground shells on the floor inside storage structures.	nuts in
	Do not expose groundnuts to moisture during transporting and	marketing.
	Remove bad groundnuts and bury or burn them. <u>Please Note: Bupreferred form of disposal.</u>	urning is the

Session Two

Demonstration of Recommended Behaviours by Model Family and **Possible Outcomes**

- 1. Review the recommended practices you observed being practiced by the "adaptive" (first) family.
- 2. What are the possible benefits of ensuring that groundnuts are not contaminated with aflatoxins?
- 3. What are the constraints or challenges that prevent families from fully practicing the recommended practices?
- 4. How can we address those constraints or challenges to ensure that all households practice the recommended behaviours?

Table 3. Facilitator's Notes, Session Two

Good or recommended practices	Separating bad groundnuts from good ones.
demonstrated by the adaptive (first) family and associates	Drying groundnuts on polythene in the compound.
	Burying the contaminated or bad groundnuts very deep to ensure
	children and animals do not uproot the bad groundnuts. Please note:
	Burning is the preferred method of disposing of bad groundnuts.
	 Involving the entire family in the sorting, drying, and disposal of the bad nuts.
The possible benefits of ensuring that	Grains that are not contaminated look nice and thus attract good
groundnuts are not contaminated by	market prices.
aflatoxin	Higher prices for groundnut products, such as groundnut paste, groundnut oil, and "dawadawa."
	Good groundnuts provide health benefits for families.

Session Three

Behaviours that Increase the Risk of Aflatoxin Contamination

- 1. What are some of the bad practices you observed in the second (non-adaptive) family?
- 2. What are the possible consequences of the second family's failure to abide by the recommended practices?
- 3. Why do you think the second family refused to follow the recommended practices despite having attended the workshop?
- 4. How can we ensure families practice the recommendations in the video drama?

Table 4. Facilitator's Notes, Session Three

Mention the bad practices you observed being practiced by the second family.	 Drying of groundnuts on the bare floor or in the sand. There was moisture on the floor where the groundnuts were dried. The wife refused to sort the good groundnuts from the bad ones before preparing groundnut oil and paste.
What are the possible consequences of the second family's failure to adopt the recommended practices?	 Low market prices for their groundnuts because the grains were not sorted. Consuming bad groundnuts can harm the health of household members.

Wrap Up and Conclusion

- 1. Recap: Ask the audience to restate the recommended practices to reduce the risk of aflatoxin contamination in groundnuts.
- 2. What can various family members (fathers, mothers, children) do to ensure that the recommended practices are followed fully?
- 3. Restate the key messages and inform the audience that SPRING and its partners will be conducting follow-up visits to check on their progress.

Annex 1: Orientation for Facilitators

Time Table

Orientation for Facilitators for the Aflatoxin Video Drama

TIME	ACTIVITY		
8:30–9:00 am	Welcome, Self-Introduction, Logistics, Objectives, Ground Rules		
9.00–9:30 am	Overview of SPRING/Ghana Project		
	SPRING/Ghana Programme Objectives		
	Role of SBCC in the project		
9:30–10:00 am	Differences between Lecture (Didactic) & Facilitation (Participatory) Methods of Engagement		
	Qualities of a Good Facilitator		
	Breakaway Group Work		
10:00–10:20 am	SNACK		
10:20–11:00 am	Plenary discussion of group work		
11:00–11:45 am	Overview of Aflatoxin Video Drama and Discussion Guide		
	Description of video drama and its uses		
	Use of Discussion Guide during community screening sessions		
11:45am–12:45 pm	Screening of aflatoxin video drama		
12:45–1:45 pm	LUNCH		
1: 45–3:00 pm	Discuss the three sections of the video documentary		
3:00–3:20 pm	SNACK		
3:20–4:20 pm	Discuss data collection tools		
4:20–5:00 pm	Way Forward		
	Discussion of time table for community viewing		
	Discussion of roles of partners in the community-level implementation		
	Discussion of logistics needed and available for the implementation		

Annex 2: Data Collection Form for Facilitators

Facilitators will use this form to collect information on video viewing and discussion sessions.

COMMUNITY WIDE VIDEO DATA COLLECTION TOOL						
	AFLATOXIN AW	AREN	ESS VI	DEO DR	AMA	
Section 1: Backgrou	ind Information					
	Region:					District:
C	ommunity:					Target Group:
	Date:					
Section 2: Description of	Population Reach	ed				
By Sex		Tota	l No.			
Males (5 years and	above)					
Female (5 years and	d above)					
Overall Total						
Section 3. Summary of acti					v to e	nsure that the recommended
	practices	are to	ollowed	tully		
No.	Women			Men		Children

	REMARKS		
Facilitati	on Team Members		
Name	Organization/Designation	Date	Signature

Annex 3: Observation Form for Facilitators

Facilitators will use this form when conducting follow-up interviews with community members who participated in the video screening and discussion.

AFLATOXIN VIDEO DRAMA FOLLOW-UP INTERVIEW

Ι.	υā	ate:

- 2. District:
- 3. Community:
- 4. Name of Respondent:
- 5. Age:
- 6. Sex (M/F)

Quest	ions		Answers
7.	Did you watch the aflatoxin community video drama by SPRING?		Yes1 No2
8.	Can you mention three things you remember from the video?		1
9.	Have you practiced, started practicing, or do you intend to practice any of the recommended groundnut production and consumption practices? If yes, which practices?		1. Harvest mature groundnuts immediately

		6. Burn mouldy, rotten or bad groundnuts after sortingF
11.	Would you like to share the lessons from the video with others (peer group or family)?	1. Yes
12.	Mention three things you liked about the video drama.	1
13.	Mention three things that could improve the video drama.	1

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