

## Feed the Future: Innovation Lab for Integrated Pest Management Trip Report

**Country(s) Visited:** Niger

**Dates of Travel:** 22-26/7/2019

**Travelers' Names and Affiliations:** Duong Thi Nga

**Purpose of Trip:** Training Workshop on Biological Control of the Fall Armyworm in Africa and Asia: Scouting for Parasitoids, Mass Rearing of Egg Parasitoids, and Augmentative Release Techniques

**Sites Visited:** Niamey and Sadore

### Description of Activities/Observations:

Training Workshop on Biological control of the fall armyworm in Africa (scouting for parasitoids, mass rearing of egg parasitoids and augmentative release techniques)

#### First Day

- We reported status and control of FAW in Vietnam and listened to reports on status and control of FAW from different participating countries. We learned many methods to control FAW.

- Dr. Rangaswamy Muniappan, Dr. Malick Ba and trainers of ICRISAT, INRAN presented following information:

- General information on FAW bio-ecology
- General information on Biological control (Conservation, classical, augmentative/inundative)
- Case study of successful augmentative biological control of the millet head miner in the Sahel
- Update on FAW natural enemies encountered in Africa
- Mass production of *Trichogramma* and *Telenomus*
- Best Laboratory practices for parasitoid mass rearing

Participants discussed with trainers and they shared a lot of information for control FAW.

#### Second and third days:

We split into 4 groups to practice the following:

- Preparation of FAW artificial diet

- Mass production of FAW using artificial and natural diets
- Mass rearing of *Corcyra cephalonica*
- Mass production of *Trichogramma* using *Corcyra* eggs
- Mass production of *Telenomus* using FAW eggs
- Preparation of parasitoid trichocards for field releases
- Mass rearing of *Habrobracon hebetor*, a polyphagous larval parasitoid

Thereby, we learned methods of mass rearing parasitoids for control of FAW.

#### Fourth and fifth day:

We practiced the following:

- Scouting eggs and larvae parasitoids of FAW (Sorghum and maize planted for the purpose on ICRISAT Sadore campus)
- Field release of eggs parasitoids
- Revisiting lab practices

We learned to release eggs parasitoids in the field and calculate amount of parasitized eggs per area unit.

At the end of the fifth day, the training workshop was closed. For us, the training workshop was a success. Useful information was presented. We will try to implement biocontrol of FAW in our country.

#### Training Activities Conducted:

Program type (workshop, seminar, field day, short course, etc.)	Date	Audience	Number of Participants		Training Provider (US university, host country institution, etc.)	Training Objective
			Men	Women		
short course	22- 26/7/2019			x	host country institution	Training Workshop on Biological Control of the Fall Armyworm in Africa and Asia: Scouting for Parasitoids, Mass Rearing of Egg Parasitoids, and Augmentative Release Techniques

List of Contacts Made:

<b>Name</b>	<b>Title/Organization</b>	<b>Contact Info (address, phone, email)</b>
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