



# IPM CRSP

Integrated Pest Management  
Collaborative Research Support Program

QuickTime™ and a  
decompressor  
are needed to see this picture.

## **West African Regional Consortium of IPM Excellence** **Year Three Work Plan** **IPM CRSP Technical Committee Meeting** **August 6, 2011**

### **Institution Affiliation:**

University of California, Davis  
Fort Valley State University  
Ohio State University  
Virginia Tech

### **Institutional Collaboration:**

INSAH- W. Africa	DPV- Senegal
IER- Mali	ISR- Senegal
ETQCL – Mali	CERES-Locustox-Senegal
OHVN-Mali	CSI-Ghana

# **Project Description:**

## **IPM Packages:**

- Tomato IPM Package
- Potato IPM Package
- Cabbage IPM Package

## **Countries:**

- Mali
- Senegal
- Ghana

## **Global Themes:**

- Plant virus diseases
- IPDN
- Gender
- Impact assessment

## Some highlights 2010-2011

- **October 2010 Trip to Ghana and Mali: Pest assessment and research planning activities**



## Some highlights 2010-2011

### March 2011 Trip to Mali and Senegal: Pest assessment and research planning activities



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## **Some highlights 2010-2011**

- **June 2011 IPDN Workshop at the University of Ghana**
- **July 2011 Ghana and Mali Gender/Impact Assessment training workshops**
- **Tomato guide development**
- **Weed guide development**
- **Web site development**

# **Objective 1: Develop and implement an IPM package for tomato in Ghana, Mali and Senegal**

## **Activities--**

- **Establish locations for implementation of tomato IPM programs and conduct surveys**
- **Select plants of the open pollinated OPGP varieties for production of seed (New)**
- **Sampling & identification of whitefly natural enemies in the cropping systems (New)**
- **Develop management strategies for *Ralstonia* bacterial wilt of tomato (New)**
- **Gather data on weed incidence and whitefly occurrence on weeds**
- **Assess the feasibility of using tomato grafting technology for management of bacterial wilt of tomato in Senegal (New)**
- **Plan for technology transfer and short-term training**
- **Plan for institutional capacity-building and long-term training**
- **Develop an IPM package for rainy season tomato production (New)**
- **Produce a tomato production guide for West Africa**

## **Objective 2: Develop and implement IPM strategies for diseases and arthropod pests of potatoes in Mali and Senegal**

### **Activities --**

- **Begin the implementation of the potato IPM packages in Mali and Senegal**
- **Continue to conduct surveys in each location for potato production practices, yields and disease and pest problems**
- **Have farmers participating in the IPM program complete surveys**
- **Continue to train pathologists from Senegal in Mali in the use of diagnostic tools for the identification of the strains of *Ralstonia* and *Erwinia***
- **Initiate efforts to evaluate new potato varieties in Mali and Senegal (New)**
- **Expand the monitoring of PTM populations & determine the parasitoids associated with PTM**
- **Plan for technology transfer and short-term training**
- **Plan for institutional capacity-building and long-term training**

## **Objective 3: Develop and implement an IPM package for cabbage in Mali and Senegal**

### **Activities --**

- **Conduct surveys in each location for cabbage production practices, yields and disease and pest problems**
- **Identify farmers for participating in the IPM program**
- **Establish pheromone trapping grid for determination of species presence and phenology**
- **Conduct routine field scouting to make collections of lepidopteran larvae for identification**
- **Conduct small-scale field trials to determine efficacy of selective insecticides**
- **Collect larvae and pupae for rearing of natural enemies**
- **Evaluate intercropping with tomato as a control for diamondback moth in cabbage.**
- **Plan for technology transfer and short-term training**
- **Plan for institutional capacity-building and long-term training**
- **Conduct initial weed surveys (New)**



## **Graduate training:**

- PhD. Kemo Badji; University of Bamako
- MS. Mohameth Kane; University of Thies
- MS. TBD University of Ghana

## **Global Themes:**

- Plant virus diseases
- IPDN
- Gender
- Impact assessment

