

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



Country(s) Visited: Ethiopia

Dates of Travel: 2-5th November, 2016

Travelers' Names and Affiliations: Josphat Kiplang'at Korir, PhD student, ICIPE and University of Nairobi, Kenya

Purpose of Trip: Annual review and planning for year 2 activities of grain IPM project

Sites Visited: Addis Ababa

Description of Activities/Observations:

I presented my PhD proposal entitled; 'Potential Adoption and Economic Impacts of Maize, Rice and Chickpea IPM in Kenya, Tanzania and Ethiopia'. The comments raised from the presentation were;

1. The push-pull technology for control of maize stem borer and *striga* weed should be treated as a damage abatement input while assessing its productivity impact. Therefore a combination of damage abatement and the traditional production/profit function should be estimated.

2. The sampling methodology should be stratified to ensure that only farmers who actually grow the crops i.e maize, chickpea and rice of research interest should be targeted.
3. Conduct plot trials to assess impacts of IPM on economic variables such as yield loss reduction, changes in pesticide application expenditure and changes in yields. This information will be used to update the existing literature on economic impacts of IPM technologies.
4. The objective on assessing knowledge, attitudes and practices was common for all of us (PhD) students. It was therefore suggested that we standardize our survey instrument for the three crops.

I also outlined my achievement in year 1 and the planned activities for year 2.

Achievements;

I presented my research concept note at ICIPE, Nairobi and at the department of agricultural economics, university of Nairobi. I also participated in the baseline survey on vegetable and maize IPM in Kenya, working together with Muntasir of Virginia tech, the result of which were presented at the workshop by Dr. Menale. The full report will be out shortly.

Year 2 activities;

Conduct baseline surveys on maize, chickpea and rice in Kenya, Ethiopia and Tanzania. Produce at least three journal articles on knowledge, attitudes and practices (KAP) towards grain IPM in the three countries as well as productivity impacts of existing IPM practices such as push-pull.

I also attended a presentation by Dr. Chuwa entitled Project title: **'Screening and verification of rice tolerant varieties to blast, rice yellow mottle virus and blight diseases in Morogoro, Tanzania'**. This presentation highlighted the prevalence and economic losses associated with rice blast, rice yellow mottle virus and bacterial leaf blight diseases in Tanzania. The presenter also discussed the achievements of the first year of the project and planned activities for year 2.

Attended a presentation by Bonaventure January, PhD student at Sokoine University Tanzania entitled **'Abundance and management of rice stem borers in low land rice in Morogoro Tanzania'**

I also attended a presentation by Paddy Likhayo entitled **'Promotion of push-pull technology for the control of stem borer in Bomet and Kericho regions of Kenya'**. The presenter highlighted the economic impacts of the stem borer in the south rift valley

region of Kenya. Upscaling activities such as training and conducting field trials in new project sites were also highlighted in the presentation.

I participated in the presentation by Dr. Menale Kassie entitled '**Results of baseline survey on maize IPM in Nakuru and Bomet Counties, Kenya**'. Participants from Kenya reported that the findings of the study reflected the situation obtaining on the study areas. The enumerators and all those who participated in the survey were commended by the KALRO project implementer Dr. Paddy Likhayo for the good job they did. The socio-economic indicators for the project were also highlighted during this presentation. The indicators include; gender issues on IPM, yield changes as a result of IPM, changes in pesticide expenditure, number of IPM technologies adopted, and number of households benefiting directly from the IPM technologies among others.

Attended presentation by Azarat entitled '**Development and Verification of Integrate Pest Management Methods for Managing Major Diseases and Insect Pests of Chickpea in Ethiopia.**' Results revealed that combination of the raised bed, variety and seed dressing better field performance and uniform germination than furrow type.

Ibrahi Hashim ,, PhD student at Sokoine University made a presentation on '**Development of integrated disease management for rice blast disease (*Pyricularia grisea*) in Tanzania**' the presenter outlined the methods and experiments to be conducted to achieve the set out objectives.

Msami Elbariki made a presentation entitled 'Maize stemborers and striga management in Tanzania using push-pull technology in Tanzania' highlighting current stem borer and striga situation in Morogoro and Manyara regions of Tanzania. Presenter also mentioned trials sites selected for demonstration plots.

Tarekegn Fite presented PhD proposal entitled; '**Biology, Seasonality and Integrated Management of Chickpea (*Cicer arietinum*) Pod Borer, *Helicoverpa armigera* (Hubner) (Lepidoptera: Noctuidae) in Ethiopia**'

Girma Demissie presented 'Integrated Termite Management in maize crop in Bila & Sire districts, Ethiopia.'

Over and above stated presentations I attended and actively participated in the other project activity planning sessions up to the end of the workshop. I enjoyed my stay at Addis and flew back to Nairobi on 5th, November, 2016.

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		
Workshop	3-5 th November, 2016	23	20	3	ICIPE	Annual review and planning of year 2 activities.

Suggestions, Recommendations, and/or Follow-up Items:

Since my study at the University of Nairobi is by research only I am requesting for refresher course on econometrics and statistical model mid next year (2017).

Project indicators will only be achieved if there is timely release of funds by raising requisition on time to avoid delaying the planned activities, one should also know the indicators that he want to achieve within the stipulated time.

List of Contacts Made:

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