

2013 Annual Meeting



Horticulture CRSP

Collaborative Research Support Program

Building international partnerships for
fruit and vegetable research that
improves livelihoods in
developing countries



USAID
FROM THE AMERICAN PEOPLE



Welcome

On behalf of the Management Entity of Horticulture CRSP, I would like to welcome you to our third annual meeting. We look forward to engaging with you during the week to learn from your experience and knowledge related to Horticulture CRSP's goal of improving the livelihoods of smallholder farmers through horticulture. We have structured the agenda to allow for updates on project activities and information exchange among investigators, planning for the future direction of Horticulture CRSP, and brainstorming about mechanisms to increase impact and scale-up. We hope that you leave the meeting stimulated by new ideas and connections.

Beth Mitcham, Director

Meeting objectives:

- Provide an update on changes and goals of USAID and Horticulture CRSP
- Raise awareness of regional horticultural activities and opportunities
- Promote exchange between projects and participants
- Increase awareness of project objectives
- Identify opportunities to increase impact





Horticulture CRSP in East Africa

With funds from the U.S. Agency for International Development, Horticulture CRSP has supported nearly \$2.6 million in horticultural research projects that affect smallholder farmers in East African countries.

Seed systems:

- Implementing drying beads for seeds in Kenya, Tanzania, Uganda and Rwanda

Improving production and extension:

- Testing nets and floating row covers in Kenya
- Improving production of indigenous African leafy vegetables in Kenya and Tanzania
- Increasing smallholder use of grafting and tunnels for tomatoes and peppers in Kenya, Tanzania and Uganda

Enabling industry and innovation:

- Developing a participatory extension model in Democratic Republic of the Congo and Uganda
- Developing energy solutions for horticultural production in Kenya
- Strengthening farmer groups to increase vegetable production in Uganda

Regional Center of Innovation at KARI

The Horticulture CRSP Regional Center of Innovation at the Kenya Agricultural Research Institute (KARI) is housed at the Practical Training Center run jointly with the Fresh Produce Exporters Association of Kenya (FPEAK). The center brings together key regional players from throughout East Africa to build capacity with innovative technologies that offer solutions for smallholders' horticultural needs.

Postharvest practices and marketing:

- Opening a postharvest training and services center in Tanzania
- Strengthening the value chain for African indigenous vegetables in Kenya and Tanzania
- Developing a concentrated solar dryer in Tanzania
- Demonstrating low-cost cooling technology in Uganda
- Training postharvest experts in Kenya, Rwanda, Tanzania, Uganda and Ethiopia

Partners in East Africa

- | | | |
|---|--|--|
| <ul style="list-style-type: none"> • AtoZ Textile Mills International, Tanzania • Agribusiness Initiative Trust, Uganda • Agro Farm Services, Kenya • AVRDC - The World Vegetable Center, Tanzania • Egerton University, Kenya • icipe, Kenya • Institut des Sciences Agronomiques du Rwanda, Rwanda • Kangai Tisa Horticultural Farmers Group, Kenya | <ul style="list-style-type: none"> • Kenya Agricultural Research Institute, Kenya • Kigali Independent University, Rwanda • Kigali Institute of Science and Technology, Rwanda • Makerere University, Uganda • Ministry of Agriculture, Food Security, and Cooperatives, Tanzania • Moi University, Kenya • Mukono District Council, Uganda • Umatara PolyTechnic, Rwanda • Mukono Zonal Agricultural | <ul style="list-style-type: none"> Research and Development Institute, Uganda • Our Lady Queen of Apostles Nkokonjeru Parish, Uganda • Reach Your Destiny Consult, Uganda • Rural Agency for Sustainable Development, Uganda • Scheut Tshilomba, Democratic Republic of the Congo • South Eastern University College, Kenya • Uganda Christian University, Uganda |
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Agenda

Unless otherwise noted, all sessions in Ivory Lounge Meeting Room and all breaks on Kivuli Terrace.

Sunday, May 5: Early Registration in hotel lobby, 5:30 until 7:00 p.m.

Monday, May 6

7:30 a.m. **Registration**

8:30 a.m. **Welcome**

- Beth Mitcham, Horticulture CRSP
- Lusike Wasilwa, Kenya Agricultural Research Institute (KARI)
- Millie Gadbois, USAID/Kenya
- John Bowman, USAID/Washington

10:00 a.m. **Group photograph and tea break**

10:30 a.m. **Update: Regional Centers of Innovation** "From research to practice"

- Britta Hansen, Horticulture CRSP

Regional Center Directors:

- Poonpipope Kasemsap, Kasetsart University, Thailand
- Julio López Montes, Zamorano University, Honduras
- Lusike Wasilwa, KARI, Kenya

11:00 a.m. **Update: Horticulture CRSP Management Entity activities**

Beth Mitcham, Horticulture CRSP

11:30 a.m. **Project Updates: Comprehensive Projects**

Horticulture CRSP's \$1 million Comprehensive Projects are in their second year. Hear what the project teams have done, what the teams are planning to do, promising early results and related innovative technologies.



Implementing drying systems to preserve seed quality

Kent Bradford, University of California, Davis
Kenya, Tanzania, Uganda, Rwanda, Nepal and Bangladesh



Strengthening the value chain for African indigenous vegetables

Stephen Weller, Purdue University
Tanzania, Kenya and Zambia

12:30 p.m. **Lunch** Location: Café Kigwa

2:00 p.m. **Building Collaborations Activity #1** "Learning about the wealth of expertise in the room"

Facilitators: Mark Bell, Horticulture CRSP and Amanda Crump, Horticulture CRSP

3:00 p.m. **Tea break**

3:30 p.m. **Building Collaborations Activity #2** "Identifying successes and innovative ideas"

Facilitators: Mark Bell, Horticulture CRSP and Amanda Crump, Horticulture CRSP

5:00 p.m. **Poster previews and networking session**

7:00 p.m. **Horticulture CRSP hosted dinner** Location: Bougainvillea Ballroom

Agenda

Tuesday, May 7

7:00 a.m. **PI breakfast** Location: Mamta Poolside (tables reserved)

8:00 a.m. **Project Updates: Pilot Projects**

Pilot projects were funded for approximately \$500,000 each and are entering their final phases. Hear about "Aha!" moments from each of the projects and previews of their impacts and discoveries.



Developing an interdisciplinary network to increase safe vegetable production

Cary J. Trexler, University of California, Davis
Vietnam and Cambodia



Increasing capacity of smallholder farmers to produce and market indigenous leafy green vegetables

Kate M. Scow, University of California, Davis
Uganda



Opening a regional postharvest training and services center for Sub-Saharan Africa

Diane M. Barrett, University of California, Davis
Tanzania, Kenya, Rwanda, Ethiopia, Benin, Gabon and Ghana



Seeds of Hope: Producing local, disease-resistant vegetable seed

Jim Nienhuis, University of Wisconsin-Madison
El Salvador, Guatemala, Honduras and Nicaragua



Agricultural nets and floating row covers: New tools for vegetable production

Vance Baird, Michigan State University
Kenya and Benin

10:30 a.m. **Tea break**

Agenda

Continued: Tuesday, May 7

11:00 a.m. **Poster Mini Talks: Focus and Continuation Projects**
Focus and Continuation Projects are in the early stages. In small groups, you will tour through the posters and hear from each speaker about project objectives and progress.



Innovative energy solutions for horticulture

Michael Reid, Horticulture CRSP
Honduras, Kenya and Thailand



Testing savings group strategies for horticultural technologies

Frederik Sagemüller, Royal University of Agriculture
Cambodia and Vietnam



Delivering food safety extension through social networks

Jeffrey Lejeune, The Ohio State University
Guatemala, Honduras and Nicaragua



Strengthening the value chain for orange- and purple-fleshed sweet potatoes

Eunice Bonsi, Tuskegee University
Ghana



Improving postharvest practices with local market support

Jim Simon, Rutgers University
Zambia

12:30 p.m. **Lunch** Location: Café Kigwa

2:00 p.m. **Field tours**
Reserve a seat on your preferred tour during registration:

- **Kakusi Farm:** Visit farms growing Fuerte and Hass avocados and their packing facilities
- **Horticulture Crops Development Authority:** Visit packing and grading facilities at the horticulture center at Jomo Kenyatta International Airport

5:30 p.m. **Return.** Dinner on your own.

Agenda

Wednesday, May 8

7:00 a.m. **PI breakfast** Location: Mamta Poolside (tables reserved)

8:00 a.m. **Future Directions: Horticulture CRSP**
Beth Mitcham and Mark Bell lead discussion of survey results and potential future of the program

8:45 a.m. **Workshop: How to increase program impact**
"What is impact?" Amanda Crump, Horticulture CRSP

9:00 a.m. **Workshop Concurrent Sessions (choose one):**

- What are the opportunities and challenges to disseminate information?
Facilitators: Mark Bell and Amanda Crump
- Increasing impact through the Regional Centers of Innovation
Facilitators: Britta Hansen and Michael Reid
- How can you best tell the story of your project?
Facilitator: Brenda Dawson

10:00 a.m. **Report back** (10 minutes each group)

10:30 a.m. **Tea break**

11:00 a.m. **Workshop Concurrent Sessions (choose one)**

- How do we use emerging ICT tools to increase impact?
Facilitators: Mark Bell and Brenda Dawson
- Which horticultural technologies are ready for scale-up (and how)?
Facilitators: Michael Reid and Britta Hansen
- What kind of activities can increase our impact for the most vulnerable?
Facilitator: Amanda Crump

12:00 p.m. **Report Back** (10 minutes each group)

12:45 p.m. **Lunch** Location: Café Kigwa

2:00 p.m. **Presentations: Horticulture in East Africa – Opportunities and Successes**

- Beth Mitcham, Horticulture CRSP: Introduction and overview
- Lusike Wasilwa, KARI: "Horticulture in East Africa"
- Mary Onsongo, USAID/East Africa: "Fresh Fruit and Vegetable Markets of East Africa"

3:00 p.m. **Tea break**

3:30 p.m. **Panels: Horticultural research successes and opportunities for East Africa**

From a researcher's view:

- Margaret Hutchinson, University of Nairobi
- Willis Owino, Jomo Kenyatta University of Agriculture and Technology
- Ngoni Nenguwo, AVRDC-The World Vegetable Center
- Monicah Waiganjo, KARI

From an implementer's view:

- Mwebe Samuel, Rural Agency for Sustainable Development
- Stephen Mbithi, Fresh Produce Exporters Association of Kenya
- Timothy Mwangi, Kenya Horticulture Competitiveness Project
- TBD

5:30 p.m. **Closing Ceremony and Reception** ends 7:00 p.m.



“From Research Into Practice”

Launch: Horticulture CRSP Regional Center of Innovation at KARI

By conducting research throughout the horticultural value chain, Horticulture CRSP partners have been able to learn a great deal about the main barriers to production, marketing, storage and sales of horticultural commodities. The Regional Centers of Innovation are working to take this knowledge from research into practice.

The theme for the launch of the Regional Center of Innovation at KARI is “From Research Into Practice.” The event will highlight Horticulture CRSP technologies housed at the center for training and research use. Guest speakers will discuss their research with a focus on implementation strategies, challenges, practical lessons learned and ideas for scaling up.

Thursday, May 9

8:00 a.m.	Load buses at Safari Park Hotel
8:30 a.m.	Travel to Fresh Produce Exporters Association of Kenya (FPEAK) Practical Training Center in Thika
9:00 a.m.	Launch: Horticulture CRSP Regional Center of Innovation at KARI <ul style="list-style-type: none">• Opening Remarks• Tea• African indigenous vegetables research for improved production and marketing in East Africa Stephen Weller, Horticulture CRSP researcher from Purdue University• Field tour of Horticulture CRSP technologies in action• Lunch• Using drying beads to implement a dry chain to preserve seed quality Kent Bradford, Horticulture CRSP researcher from University of California, Davis• Tea• Regional Center of Innovation: From research into practice Interactive session seeking feedback and ideas for the future of the center• Closing notes
5:30 p.m.	Buses return to Safari Park Hotel

Detailed schedule provided at the event, as it will depend on the day's weather.

Horticulture CRSP Regional Center of Innovation at KARI

Overview

The Horticulture CRSP Regional Center of Innovation at the Kenya Agricultural Research Institute (KARI) will serve Kenya, Tanzania, Uganda, Rwanda and Ethiopia by providing:

- Training for farmers and horticultural professionals
- Technical assistance and innovative technologies
- Curricula and material development
- Information dissemination

The center brings together key regional players to improve livelihoods of poor farmers and small businesses in East Africa.

Center goals are to improve:

- income for smallholder farmers in the region;
- access to nutritious fruits and vegetables within the region;
- gender equity in the horticulture sector; and
- research and management capacity at the host institution.

Strategic objectives:

- Increase farmer knowledge of improved horticultural practices
- Increase the number of regionally specific horticultural technologies
- Increase local adoption of horticultural technologies by smallholder farmers
- Increase investments and number of entrepreneurs working with horticultural technologies
- Create a global horticulture knowledge bank



The Horticulture CRSP Regional Center of Innovation at KARI is located at the institute's Horticultural Practical Training Center managed by the Fresh Produce Exporters Association of Kenya (FPEAK).



Leadership

Lusike Wasilwa is the director of the Horticulture CRSP Regional Center of Innovation at KARI. She is also assistant director in charge of the Horticulture and Industrial Crops Division at KARI and currently serves as the chair of Horticulture CRSP's International Advisory Board.



Lusike Wasilwa

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In Memoriam: Adel Kader
We miss our friend, colleague and
board member at this, our first
meeting without his attendance.

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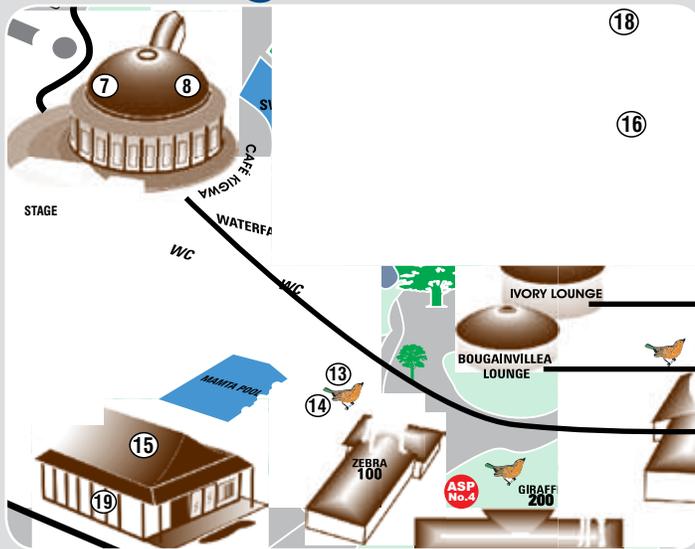
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Meeting locations



- Ivory Lounge: Main meeting space
- Bougainvillea Lounge: Monday dinner
- Cafe Kigwa: Lunches

Complete map available at <http://www.safaripark-hotel.com/public/sp-pdf/SPH-Map.pdf>

Please share highlights of the Horticulture CRSP 2013 Annual Meeting with your colleagues. Information from this meeting — including presentations, posters, handouts and other documents — will be shared on the Horticulture CRSP website at:

<http://hortcrsp.ucdavis.edu/2013/>

Until the next time we meet, you can also keep up with the latest Horticulture CRSP news by:

- Signing up for our email list
- Following us on Twitter, @HortCRSP
- Liking us on Facebook.com/HortCRSP

Also remember to share your information with Horticulture CRSP by:

- Adding your project to our Map of Horticultural Projects Worldwide
- Sharing your contact information with our Find a Collaborator list

After the meeting



<http://hortcrsp.ucdavis.edu>

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