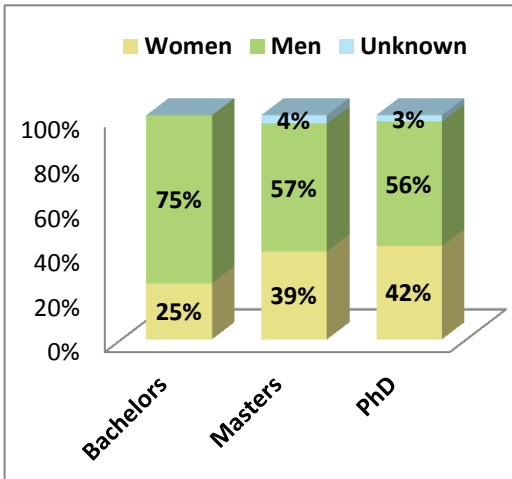




## Feed the Future Innovation Labs for Collaborative Research Country Profile

### Kenya

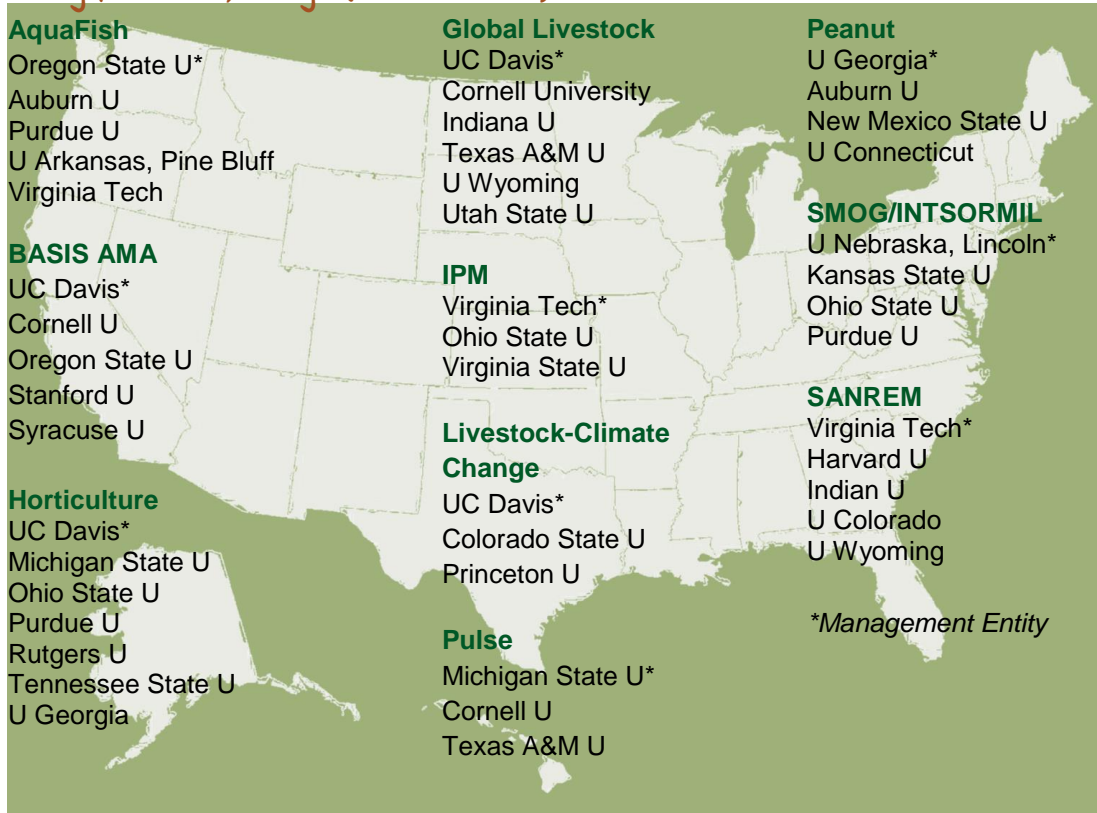


### Long-term Degree Training

The Feed the Future Innovation Labs for Collaborative Research and the former Collaborative Research Support Programs (CRSPs) since 1978 have trained a total of **126 long-term degree students** from Kenya earning **127 degrees** in disciplines including Agricultural and Applied Economics, Agronomy, Anthropology, Biology, Ecology, Food Science and Nutrition, Horticulture, Human Ecology, Plant Breeding and Pathology, Soil and Crop Science. Bachelors (9.4%), Masters (62.2%) and Ph.D. (28.3%) degrees were granted. Women received just over **38%** of those degrees. **Moi University** and **Egerton University** granted 23 and 16 degrees respectively. Students studied at U.S. Universities including Cornell U, Kansas State U, Mississippi State U, North Carolina State U, Ohio State U, Purdue U, Texas A&M U, Texas Tech U, UC Davis, UCLA, U

Connecticut, U Kentucky, U Missouri-Columbia, U Wyoming, Washington State U, and Virginia Tech and trained under AquaFish, BASIS, Pulse, Global Livestock, Horticulture, IPM, INTSORMIL, Livestock-Climate Change, Peanut, Small Ruminant, SANREM, and Trop Soils.

### U.S. University Partners, Kenya (2007 - 2013)





## **Innovation Labs for Collaborative Research and CRSP Activities in Kenya (2007 - 2013)\***

### **Adapting Livestock Systems to Climate Change**

- A cost-effectiveness framework for landscape rehabilitation and carbon sequestration in North Kenya
- Climate variability, pastoralism, and commodity chains in Ethiopia and Kenya
- Pastoral transformations to resilient futures: understanding climate change from the ground up

### **Aquaculture & Fisheries (AquaFish)**

- Assessment of Integrated Pond-Cage System for the Production of Nile Tilapia to Improve the Livelihood of Small-Scale Fish Farmers in Kenya
- Developing Supply Chain and Group Marketing Systems for Fish Farmers in Ghana and Kenya
- Development of Small-scale Clarias Fingerlings as Bait for Lake Victoria Commercial Fisheries in Western Kenya
- Enhancing the Profitability of Small Aquaculture Operations in Ghana, Kenya and Tanzania Through Improved Resource Management and Environmental Best Management Practices Virginia Polytechnic Institute & State University
- Enhancing The Profitability Of Small Aquaculture Operations In Ghana, Kenya, and Tanzania
- Enhancing the Profitability of Small Aquaculture Operations in Kenya and Tanzania Purdue University
- Improving Competitiveness of African Aquaculture through Capacity Building, Improved Technology, and Management of Supply Chain and Natural Resources
- Prospects and Potential of The African Lungfish (Protopterus Spp): An Alternative Source of Fishing And Fish Farming Livelihoods In Uganda and Kenya
- Value Chain Development for Tilapia and Catfish Products: Opportunities for Women Participation

### **BASIS Assets and Market Access (AMA)**

- A Productive Safety Net for Northern Kenya's Arid and Semi-Arid Lands: HSNP+ Program
- Developing a Satellite based Index to Predict Crop Yields in Smallholder Agriculture
- Evaluating the Socio-Economic Impacts of Western Seed's Hybrid Maize Program
- Tailoring Contract Farming to Smallholders: Experimental Evidence on Enrollment Impact, Insurance Provision, and Communication Technologies

### **Dry Grain Pulses (Pulse) (Legume as of 2013)**

- Increasing Utilization of Cowpeas to Promote Health and Food Security in Africa
- Using Improved Pulse Crop Productivity to Reinvigorate Smallholder Mixed Farming Systems in Western Kenya

### **Global Livestock**

- HNP: Increasing Animal Source Foods in the Diets of HIV-infected Kenyan Women and Their Children
- LINKS: Livestock Information Network & Knowledge System for Enhanced Pastoral Livelihoods in East Africa
- LITEK: Livestock Trade in Ethiopia and Kenya
- PARIMA : Improving Pastoral Risk Management on East African Rangelands
- SUMAWA : Multidisciplinary Research for Sustainable Management of Rural Watersheds: the River Njoro, Kenya

### **Horticulture**

- Developing Low-Cost Pest Exclusion and Microclimate Modification Technologies for Small-Scale Vegetable Growers
- Educating Smallholder Vegetable Farmers in Grafting and Microclimate Management Techniques
- Employing a Novel Gender-Based Extension Model to More Effectively Train and Engage Horticultural Farmers
- Extension of Appropriate Postharvest Technology in Sub-Saharan Africa: A Postharvest Training and Services Center

- Indigenous African Leafy Vegetables (ALV) for Enhancing Livelihood Security of Smallholder Farmers in Kenya
- Regional Center of Innovation
- Seed Systems: Improving seed quality for smallholders
- Sustainable African indigenous vegetable production and market-chain development
- Trellis I, II, and III: Engaging US Students in International Development

#### **Integrated Pest Management (IPM)**

- Abating Parthenium (*Parthenium hysterophorus* L.) Damage in Eastern Africa Using Integrated Cultural and Biological Control Measures
- International Plant Diagnostic Network
- International Plant Virus Disease Network
- Regional IPM Program in East Africa: Kenya, Tanzania and Uganda

#### **Peanut (*Peanut and Mycotoxin as of 2013*)**

- Global Valencia Peanut Niche Market Development Program
- Improving livelihoods of farm households in peanut based farming systems in East Africa
- Improving the health and livelihood of people of East Africa by addressing aflatoxin and gender-related constraints in peanut production, processing and marketing
- Strategies for Controlling Groundnut Rosette Disease in Sub-Saharan Africa: Breeding for Disease Resistance, Seed Dissemination, Disease Management Education, and Generation of Transgenic Groundnut with Resistance to Groundnut Rosette Disease

#### **Sorghum, Millet and Other Grains (INTSORMIL)**

- Breeding Sorghum for Improved Resistance to Striga and Drought in Africa
- Grain Molds, Mycotoxins and Stalk Rots of Sorghum and Millet

#### **Sustainable Agriculture & Natural Resource Management (SANREM)**

- LTRA-1: Decentralization Reforms and Property Rights
- LTRA-10: CAPS for smallholder farms in eastern Uganda and western Kenya
- CCRA-5: Linking Knowledge and Action - Meeting Natural Resource Management Challenges

\*Activities occurred at varying points from 2007-2013.



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