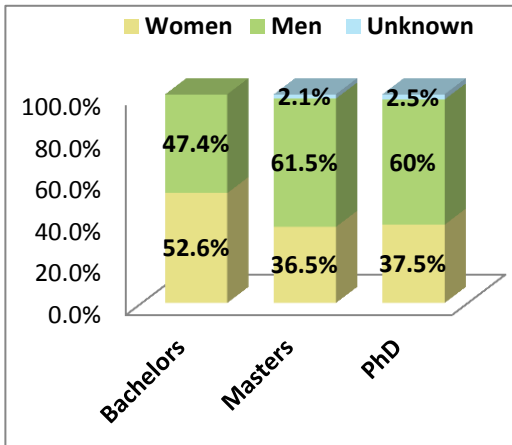




Feed the Future Innovation Labs for Collaborative Research Country Profile

Kenya

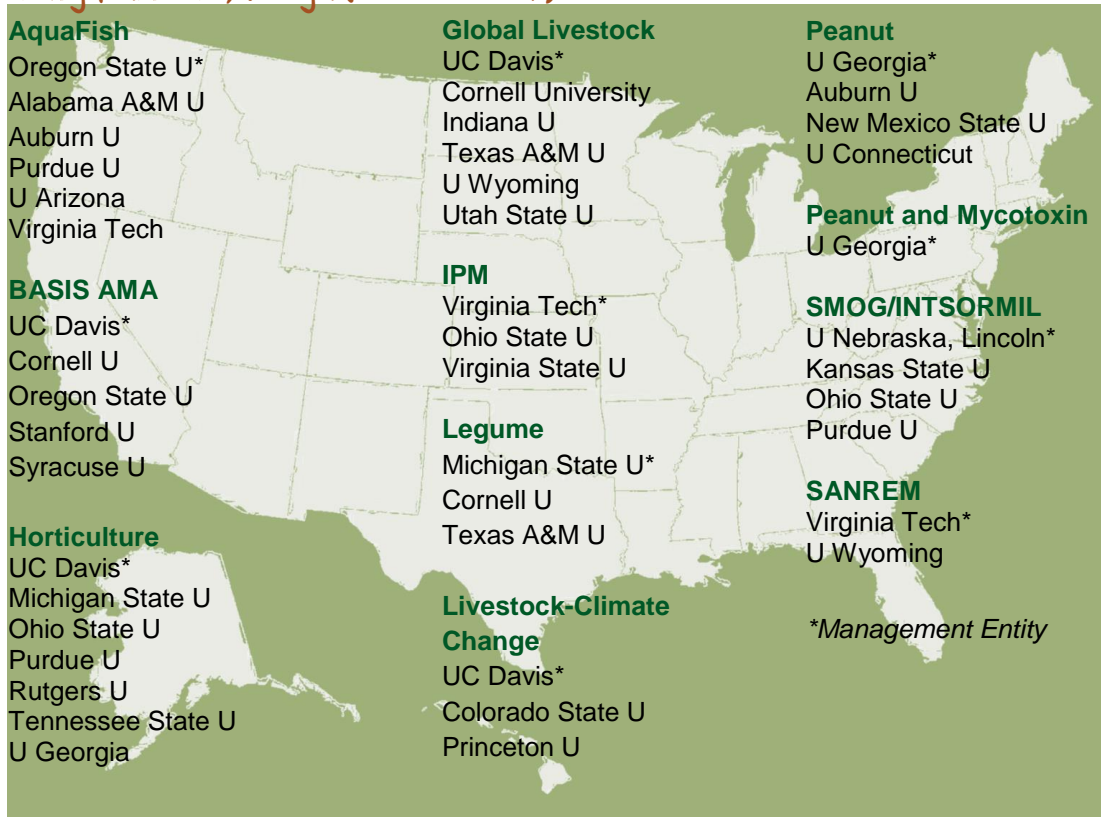
Long-term Degree Training



The Feed the Future Innovation Labs for Collaborative Research and the former Collaborative Research Support Programs (CRSPs) since 1978 have trained a total of **209 long-term degree students** from Kenya earning **216 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 (35.2%), Masters (44.4%) and Ph.D. (18.5%) degrees were granted with 2% unknown. Women received just over **41%** of those degrees. **Moi University** and **Egerton University** granted 23 and 16 degrees respectively. Students studied at local institutions as well as 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, Pond Dynamics/Aquaculture, Pulse, Global Livestock, Horticulture, IPM, INTSORMIL, Livestock-Climate Change, Peanut, Small Ruminant, SANREM, and Trop Soils.

U.S. University Partners, Kenya (2007 - 2014)



Innovation Labs for Collaborative Research and CRSP Activities in Kenya (2007 - 2014)*

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 growth performance of monosex Nile tilapia (*Oreochromis niloticus*) in cages using low-cost, locally produced supplemental feeds in cages and training fish farmers on BMPs in Kenya
- 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 low-cost aquaponics systems for Kenya
- Development of small-scale *Clarias* fingerlings as bait for Lake Victoria commercial fisheries in western Kenya
- Effects of ACRSP and AquaFish CRSP initiatives and activities on aquaculture development in Kenya
- Enhancing the profitability of small aquaculture operations in Kenya and Tanzania (*Associate Award*)
- Experimental pond unit assessment in Kenya
- Formulation and manufacture of practical feeds for western Kenya
- 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

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

Grain Legumes (Legume) Formerly Dry Grain Pulses

- 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

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

- 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

Peanut and Mycotoxin

- Peanut Varietal Development: An Integrated Global Breeding and Genomics Approach to Intensifying Peanut Production and Quality
- RNAi Silencing of Aflatoxin Synthesis: Silencing of Aflatoxin Synthesis Through RNA Interference (RNAi) in Peanut Plants

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 2007-2014.



May 2014. This publication was produced for review by the United States Agency for International Development. It was prepared by the Digest Project through support provided to Cultural Practice, LLC under contracts with US universities supported by the Bureau for Food Security, U.S. Agency for International Development (USAID). The opinions expressed herein are those of the authors and do not necessarily reflect the views of the USAID.