Dr. Pendleton collaborates with scientists, farmers, industry personnel and others to develop and transfer to end-users ways to manage insect pests of field crops including maize, wheat, millet, and especially sorghum, without relying on insecticide. Research projects in the United States and with scientists in nine African countries focus on understanding the bioecology of and evaluating sorghum and pearl millet genotypes for more durable resistance to insect pests, especially aphids, sorghum midge, panicle bugs, caterpillars, mites, and millet head miner in the field and maize weevil in stored grain.

Active Awards

2014

*Development of an Economic Irrigation Threshold for Diseased Wheat*
Sponsor: USDA – Award $11,000

*Development of Biotic Stress-Resistant Sorghum Cultivars for Niger and Senegal*
Sponsor: USAID – Award $677,563