

## Project Summary

Title	Enhancing productivity of dry bean in the face of climate variability through drought resilient varieties.
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Purpose	This project will conduct participatory variety trials with some of the elite varieties in regional bean nurseries with farmers and also identify morphological and physiological traits that confer tolerance to drought in dry bean genotypes.
Project Summary	The project will promote drought tolerant dry bean varieties as a strategy to cope with prolonged droughts in eastern Africa. Participatory selection of drought tolerant dry bean landraces, cultivars and advanced lines will be conducted in two semiarid sites in Kenya. "Mother and baby" trial design will be used to enhance farmer participation. Mechanisms for adaptation to drought stress will be studied in both field and greenhouse experiments. One student will assess growth, yield and

	shoot photosynthate partitioning and the other will analyze physiological traits and root characteristics associated with drought tolerance. Participatory M&E approach will be used. Data collected will be analyzed using GENSTAT.
Country and Specific Location(s)	Kiboko and Mwea, Kabete. Field trials will be set up on-station at KARI-Kiboko and Kabete, and on-farm at Mwea.
Participating Institutions	UON, CBOs, Governmental and NGOs
Start Date	September 2010
End date	August 2012
Amount of Funding	USD 60,000