



# Promoting sustainable beekeeping to combat poverty and to build resilient livelihoods

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**Bees** for development

# Bees for development

## supporting livelihoods and trade

- **Ethiopia**  
Beekeeping to build resilient livelihoods. Role of bees in pollination is poorly understood by many farmers.
- **Uganda**  
Promoting beekeeper to beekeeper training model. Coffee farmers report increased yields with bees.
- **Ghana**  
Integrating cashew farming with beekeeping. Research shows cashew nut yields double with bees in orchards.

# **Bees** for development

## knowledge, information, education

- **Bees for Development Journal reaches over 60,000 readers with each issue.**
- **Resource boxes of training materials disseminated – including educational posters about pollination.**
- **Online library – accessed by beekeepers, extension agents, educators and businesses.**





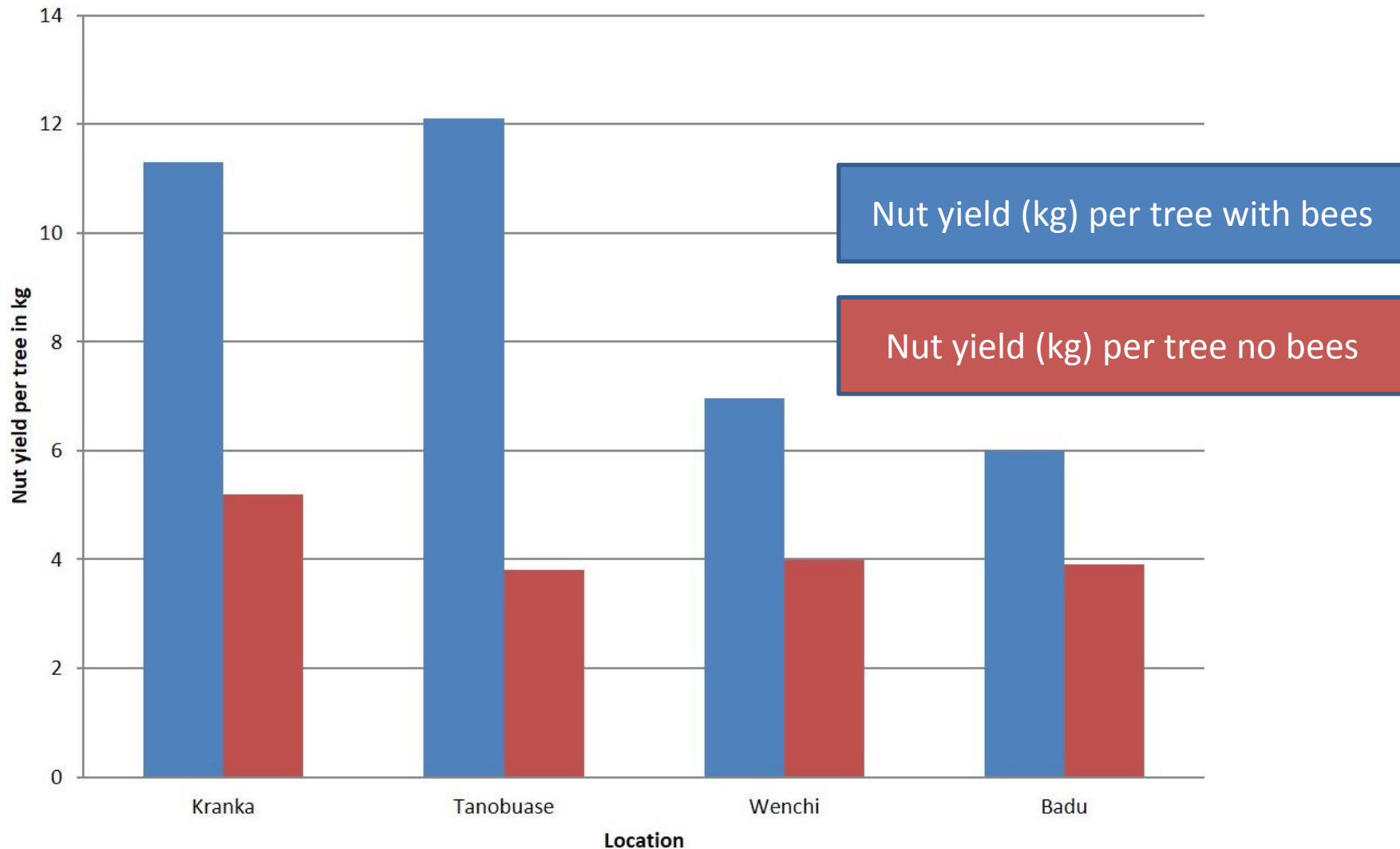
**Ghana Export Promotion Authority reports that cashew earned about \$197 million in revenue in 2016, supporting many families.**





**Cashew is pollinated by honey bee (*Apis mellifera*), stingless bees (*Dactylurina staudingeri* and *Liotrigona parvula*) and solitary bees.**

# Raw cashew nut yield in cashew orchards in four sites in Ghana (2012/13)







## Income value of integrating honey bee colonies into one hectare of cashew farms in Ghana

Item	Without bees	With bees
Raw cashew nut yield per tree	4.5 kg	9.1 kg
Value of raw cashew nut/ha/year	GHC 336	GHC 679
Value of hive products	0	GHC 396
Total gross annual income	GHC 336 (US\$ 177)	GHC 1075 (US\$ 566)





**Bees for Development is supporting Master Beekeepers to site bees in orchards of small-scale growers, and give beekeeping training.**

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# Cashew mass spraying exercise kicks off in Brong Ahafo

[Richard Kofi Boahen](#) / [Modern Ghana](#) *e*

**Government has officially launched a GH.C 1.6m Cashew mass spraying exercise as part of measures to boost the cashew production to create more jobs and increase the income levels of cashew farmers.**

The exercise further aims at supporting existing farms improvement through clearing, spraying and pruning; and set the roadmap for farm expansion and the establishment of new farms for increased production.

The Cashew mass spraying exercise, the first of its kind, is expected to increase production by about 30% and will initially target over 10,000 acres of cashew farms this year and over 70,000 acres annually beginning from 2018.



## **Response mounted by Dr. Kwame Aidoo, Director of Bees for Development Ghana**

Mass spraying of agrochemicals will have the following negative effects:

- Reduction of populations of many pollinators, leading to cashew yield reductions.
- *Oecophylla* ants which effectively control insect pests in cashew orchards will be totally eliminated.
- Populations of honey bees from beekeepers' colonies will be reduced, hitting farmers incomes.



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The exercise further aims at supporting cashew farmers through clearing, spraying and pruning; and set the road for the establishment of new farms for increased production.

The Cashew mass spraying exercise, the first of its kind, is expected to increase production by about 50 per cent. The government has set a target of spraying over 10,000 acres of cashew farms this year and over 70,000 acres in 2018.

**STOPPED – UNDER REVIEW**



- Symposium -

# Research in Beekeeping and Sustainable Development

28-29 March 2018

Organised by

**Bees for development**

and

Global Development Division, University of Reading

[details](#)





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