## Project Summary

| **Title** | Safer Options for Smallholder Management of Cereal Grain Storage Insect Pests in Zimbabwe |
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| **Purpose** | The broad objective is to develop safer alternative pest management methods to the current organophosphate-based synthetic insecticides for use by smallholder farmers against insect pests attacking stored maize and sorghum |
| **Project Summary** | The proposed study seeks to develop safer, effective and environmentally-friendly options for managing stored-grain insect pests in maize and sorghum that are suitable for smallholder farmers. The options to be evaluated include combinations of: bio-pesticides and diatomaceous earths (DEs); insect growth regulators (IGR) and DEs; and, DEs and a pyrethroid. The options should be effective against *Prostephanus truncatus*, a new storage insect pest in Zimbabwe. |
The efficacy of these novel and hopefully synergistic pest management combinations will be determined, firstly in the laboratory. Thereafter, promising options will be tested simultaneously in on-station and on-farm trials and by farmer experimenters participating in farmer field schools. Other stakeholders (e.g. private sector, extension, pesticide registration authority, farmer association representatives) will be engaged in the research process to help validate the trials and facilitate the process of getting those combinations deemed by stakeholders to be the most appropriate options, into social and economic use. The study will be conducted by 2 MPhil students registered with University of Zimbabwe: one with a bias in crop protection, while the other will have a development and action research background.

| Country and Specific Location(s) | Zimbabwe |
| Participating Institutions      | University of Zimbabwe (UZ), Catholic Relief Services (CRS) |
| Start Date                      | September, 2011 |
| End date                        | August, 2013 |
| Amount of Funding               | US$59,952 |