

# Conservation Agriculture in Commercial Vegetable Home Gardens

## It Works!!!!



Manuel R. Reyes  
Kansas State University



Happy! Happy! Happy! Happy! Happy! Happy! Happy! Happy! Happy! Happy!



Photo by Ren Ry



Photo by Ren Ry



Photo by Lalit Sah



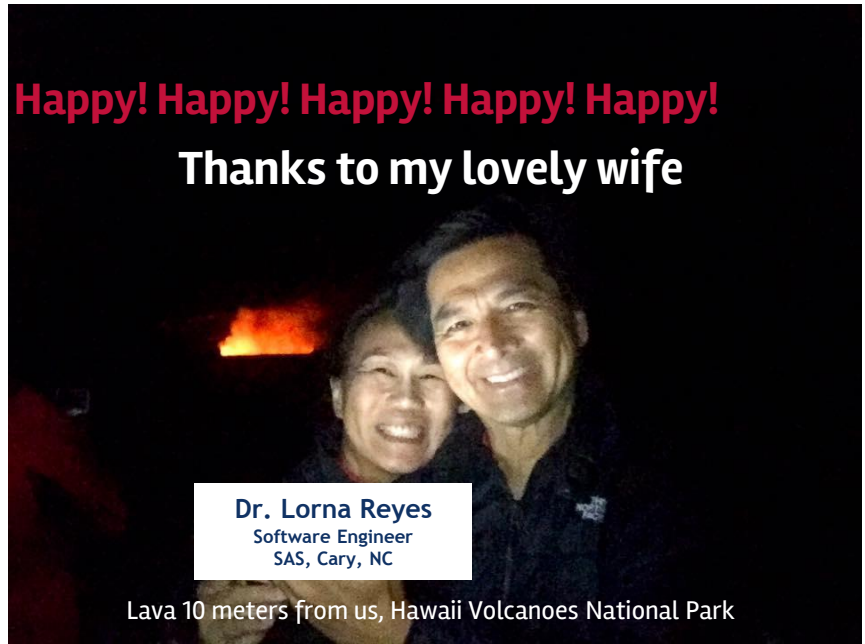
Happy! Happy! Happy! Happy!



Thanks to my son Micah

Happy! Happy! Happy! Happy! Happy!

Thanks to my lovely wife



Dr. Lorna Reyes  
Software Engineer  
SAS, Cary, NC

Lava 10 meters from us, Hawaii Volcanoes National Park

Thanks to my son Zach

Palawan Philippines



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**Provides Food**

**Near a home**

**Provides Income**

**Commercial Vegetable  
Home Garden**

# Conservation Agriculture in Commercial Vegetable Home Gardens Works!

- ▶ **It increases yield – Cambodia and Nepal**
  - ▶ **It saves water – Nepal**
  - ▶ **It reduces labor – Nepal and Cambodia**
  - ▶ **It enhances soil quality – Cambodia**
  - ▶ **It is female friendly – Nepal**
- ▶ **It reduces pests – Nepal**
  - ▶ **It provides food and income – Nepal and Cambodia**



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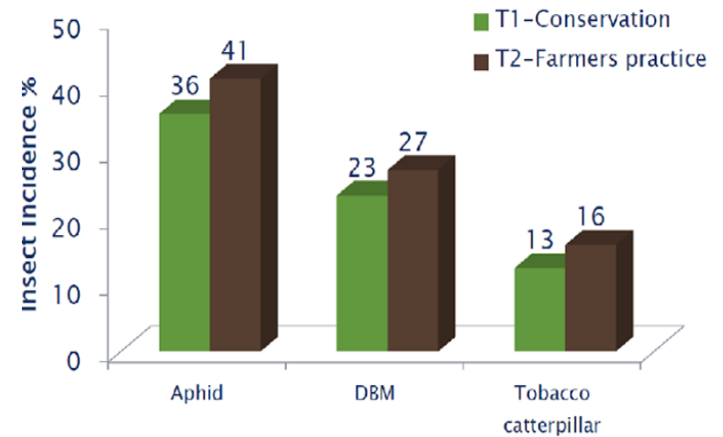
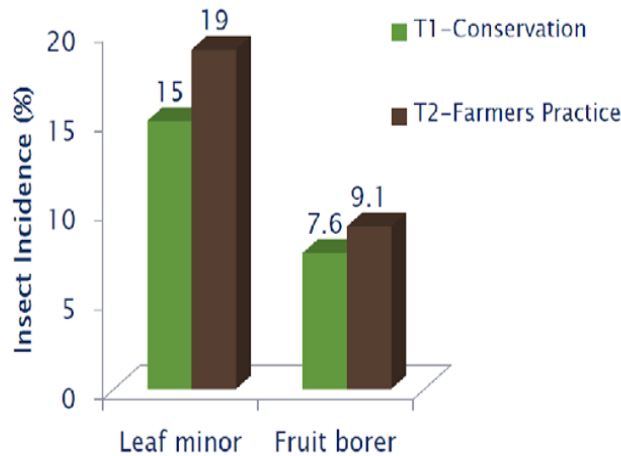


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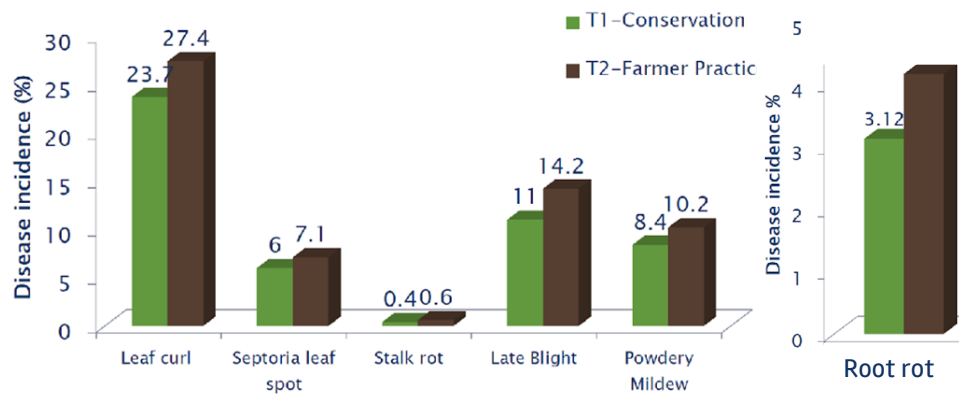
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# Tomato Insect incidence, Surkhet — Cauliflower Insect incidence, Surkhet



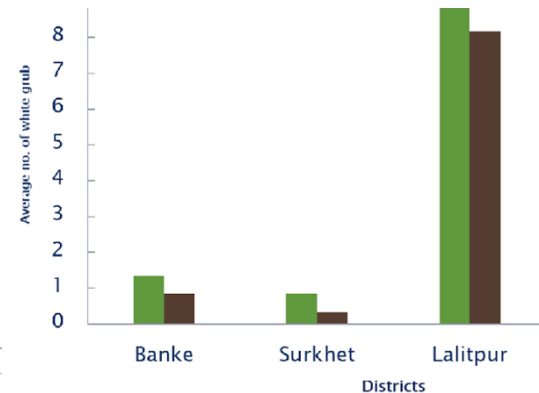
## Insects

### Tomato Disease incidence, Surkhet



## Diseases

### insects



## White grub

# Conservation agriculture in commercial vegetable home gardens provides Food



- Schneider 2016 in Nepal found increased vegetable yield in home gardens because of conservation agriculture increased home consumption



- Ren 2016 in Cambodia, explains to USAID-GLUE attendees different fruits and veggies that can be grown in home gardens and consumed by families



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Conservation agriculture in commercial  
vegetable home gardens provides income

▶ **Highest \$1,323**

Cauliflower, chili, eggplant, sponge gourd



**Proudly Marketed vegetables in neighborhoods with Tuktukbot**



# Scale up Conservation Agriculture in Commercial Vegetable Home Gardens



Cambodia



Nepal



Honduras



Ethiopia



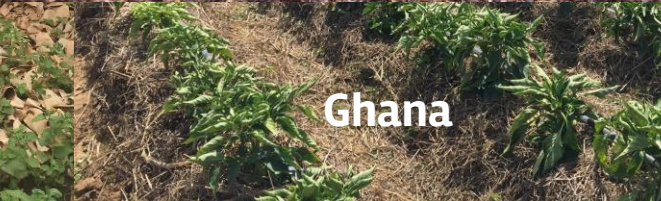
USA



Tanzania



Guatemala



Ghana



Philippines



No till. mulch. diversity. no till. mulch. diversity. no till. mulch. diversity. no till. mulch. diversity.



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