

# *Webinar 8*

# How to improve postharvest management for horticultural crops

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**USAID**  
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HORTICULTURE  
INNOVATION LAB

**UC DAVIS**  
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# Postharvest Training Materials for Smallholder Producers of Horticultural Crops That Support Transitions to Commercialization

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# **SUMMARY**

**This project was about developing and producing narrated PowerPoint presentations with embedded short videos and time-lapse photography covering twelve key postharvest topics.**

**The time lapse photography and short video clips show the actual practices or changes in product appearance occurring and serve to illustrate the concepts being presented.**

**The training materials were developed by the project PIs and recruited Subject Matter Experts. Three modules per topic target selected audiences.**

# AUDIENCES

- 1. *Smallholder, subsistence farmers* who are interested in beginning to sell portions of their crops.**
- 2. *Farmers who are already selling part of their crops,* but who wish to increase the scale and distance of their sales (e.g., in a large domestic city market).**
- 3. *Farmers who are already, or are considering, selling their product for export;* this module should also be of use for university students interested in learning postharvest concepts.**



# OBJECTIVES

***Objective 1:*** Identify and recruit Subject Matter Experts to produce the training materials; oversee the process of producing the material so that it appropriately addresses different audiences and is of uniformly high quality.

***Objective 2:*** Work with the Subject Matter Experts and Hort Innovation Lab personnel to identify, select and obtain the audiovisual materials needed by the Subject Matter Experts that will be used to illustrate the concepts and practices in the training materials.

***Objective 3:*** Trial the training materials in Guatemala and Honduras, and use the results and feedback to review and revise the materials.

# **PRESENTATIONS, TOPICS AND AUDIENCES OR MODULES**

- ***NARRATED POWERPOINT PRESENTATIONS PREPARED FOR EACH OF 12 TOPICS BY SUBJECT MATTER EXPERTS***
  - ***EACH TOPIC AVAILABLE IN ENGLISH AND SPANISH***
- ***IN ADDITION, THREE VERSIONS OF EACH PRESENTATION/TOPIC WERE PREPARED, CORRESPONDING TO THE THREE DIFFERENT AUDIENCES***
  1. ***Smallholder, subsistence farmers who want to begin selling crops***
  2. ***Farmers who are already selling part of their crops and want to reach a more demanding market***
  3. ***Farmers interested in selling their product for export***

<b>Presentation Topic</b>	<b>Subject Matter Expert(s)</b>
<b>1. Biological factors related to postharvest quality and sources for reliable information related to postharvest handling practices and marketing for fresh horticultural crops</b>	<b>Luis Cisneros</b> <i>Texas A&amp;M University</i>
<b>2. Avoiding injury during harvesting of fresh horticultural crops</b>	<b>Jeff Brecht and Mark Ritenour</b> <i>University of Florida</i>  <b>Luis Cisneros</b> <i>Texas A&amp;M University</i>

<b>Presentation Topic</b>	<b>Subject Matter Expert(s)</b>
<b>3. Grading and sorting fresh horticultural crops in the field to meet market requirements</b>	<b>Ivanna Vejarano</b> <i>Escuela Agrícola Panamericana Zamorano</i>
<b>4. Quality measurement procedures for fresh horticultural crops</b>	<b>Ana Silvia Colmenares</b> <i>Universidad del Valle, Guatemala</i>
<b>5. Curing underground storage organs</b>	<b>Lisa Kitinoja</b> <i>Postharvest Education Foundation</i>



<b>Presentation Topic</b>	<b>Subject Matter Expert(s)</b>
<b>6. Water sanitation &amp; food safety practices for fresh horticultural crops</b>	<b>Alejandro Castillo</b> <i>Texas A&amp;M University</i>
<b>7. Types of packaging for fresh horticultural crops – pros &amp; cons</b>	<b>Eleni Pliakoni</b> <i>Kansas State University</i>
<b>8. Cooling and temperature management for fresh horticultural crops</b>	<b>Steve Sargent</b> <i>University of Florida</i>

<b>Presentation Topic</b>	<b>Subject Matter Expert(s)</b>
<b>9. Storage practices for fresh horticultural crops</b>	<b>Lisa Kitinoja</b> <i>Postharvest Education Foundation</i>
<b>10. Transportation of fresh horticultural crops</b>	<b>Jeff Brecht</b> <i>University of Florida</i>
<b>11. Water loss of fresh horticultural crops</b>	<b>Mark Ritenour</b> <i>University of Florida</i>

