Semillas de Esperanza



A HortCRSP project

Jim Nienhuis Dept. of Horticulture UW-Madison

1 am powerful

CARE billboard in LA airport

She can plant the seeds of change. If she can get the seed.

As women in Africa gain the right to own land, it changes more than their lives. It changes countries. Yet, if they can't get credit to buy property or seed, or get their crops to market, their dreams remain dreams. That's why CARE is working to accelerate access to basic financial services. Now is the time for accion. She has the power to change her world. You have the power to help her do it. Visit us at CARE_ORG

Where exactly does she get the seed?

Our goal – cultivars and seed adapted to small-scale low-input rural agriculture





• Seeds are often very expensive \$0.15 -0.25/seed!!

GOALS: Semillas de Esperanza

I. Work with women's groups to develop vegetable production and marketing as a business through improved cultivars.

II. Develop seed production and marketing as a high value business specifically for women's groups and cooperatives

* Knowledge, Technology, hands-on experience

Collaborators / Partners

- World Vegetable Center Taiwan ROC
- Guatemala CARE
- El Salvador CARE Honduras – FHIA
 - Nicaragua UNA
 - Costa Rica ITCR (at their own expense!)

Activities to achieve goals

- Evaluate virus resistant germplasm
 hundreds of accessions,
- dozens
- Training regional trials

 regional and international workshops and local field days

 Organize field days for communities and women's groups I Regional Workshops Four – train community and partner leaders (120)

- * Evaluation
- * Marketing
- * Greenhouse
- * Post harvest
- * Seed technology



Honduras

Vegetable market - Nicaragua





Workshop in Nicaragua – on seeds and business management





Nicaragua workshop on vegetable seeds



Victor Cabrera Ag. Economist 10

'need a business plan'

Javier Diaz 'Vegetable guy' of FHIA - Honduras



Produce seeds in Greenhouses



Tomas Laguna in greenhouses in Nicaragua

Jaime El Gran Verdulero del Norte



II. Field Days with growers and community leaders



Martha, **Evaluating** 'Semillas de Esperanza ' tomatoes in Tisma, Nicaragua

Field days – FHIA Honduras



Javier teaching us in the field

Field days – FHIA Honduras



Javier teaching our class

Jaime – leading a discussion Tajumulco - Guatemala



Working with Women's groups



Multiplier Effect 18

3,000 single mothers

The mother load of gender equity - Tajumulco





10 –day hands-on workshops Three – over 100 participants

"Produccion y mercadeo de Hortalizas"

20



Vegetable farms in Wisconsin

21



Farmers markets

22



UW dorms and picnics

Vermont Valley Farm



Visit organic farms, how do they do it

"CRSPis" at workshop



Crspis with our Guatemalan ladies

Workshop on business management

25



33 participants!!! Many paid their own way!

John at UW workshop on business mangement



Explaining Feed the Future

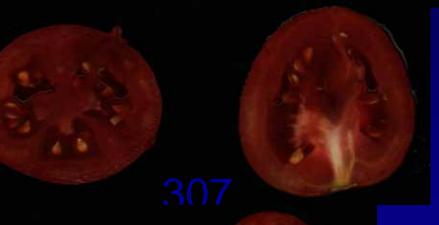
John and ladies at vegetable mark

Part of workshop on business management

Results - Impacts

- Identified tomato cultivars with virus resistance desirable market characteristics
 - The cultivars (and seedlings) are being produced and sold by women's groups in : El Salvador Nicaragua Honduras Guatemala







1.1.1

AVRDC tomato line AVTP1004 foreground vs susceptible commercial hybrid Botero



The germplasm from AVRDC is a success!

Congratulations To AVRDC and their breeder Peter Hanson Tisma tomato trial: Left-to-right: Hanson, Vidal Marin, Tisma farmer, Jannette Gutierrez



Peter Hanson of **AVRDC** Visiting Trial in Tisma, Nicaragua

Womans vegetable Cooperative



Dinamba, Nicaragua

Working with Women's groups

33



Ladies with their first harvest tajomulco, Guatemala

Building a greenhouse to produce seed Tajomulco - Guatemala

34



Javier with women's group in Honduras - siguatepeque

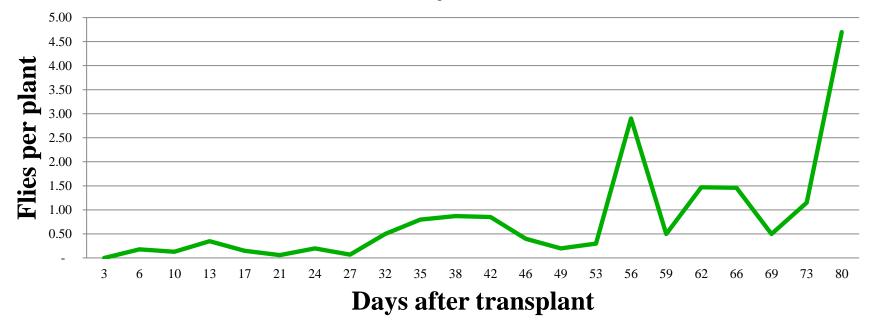


Working with Women's groups



Women's group in El Salvador

Whitefly count

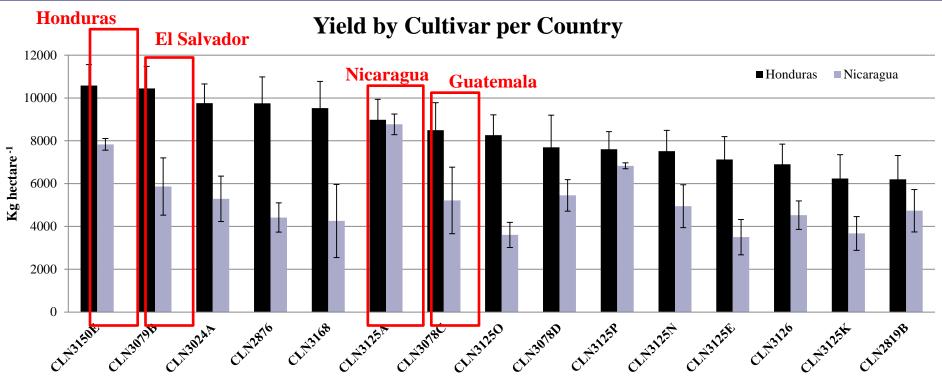


Economic threshold is one fly per plant









AVRDC Tomato Cultivars

Challenges

- Post harvest characteristics
 - cant just produce, you have to market to consumers
- Producing and storing seed
 - our partners need knowledge and technology in seed storage and drying
 - Seed technology is available through sister HortCRSP projects – Kent Bradford

Post harvest fruit evaluation

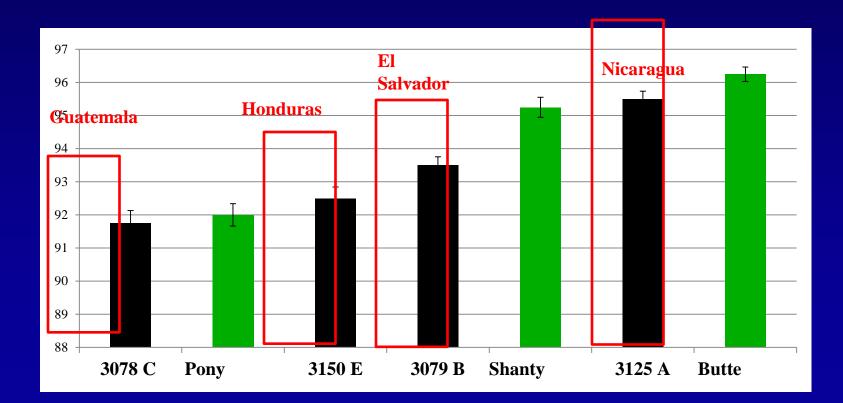
• Work with regional specialists in post harvest to evaluate our selected cultivars for : firmness, pH, Brix, color, viscosity, disease, etc..

• This is a different approach to post-harvest no coolers or gadgets, but rather, genetics

Post harvest technology workshop was planned for this fall, but a bit of a miscommunication here

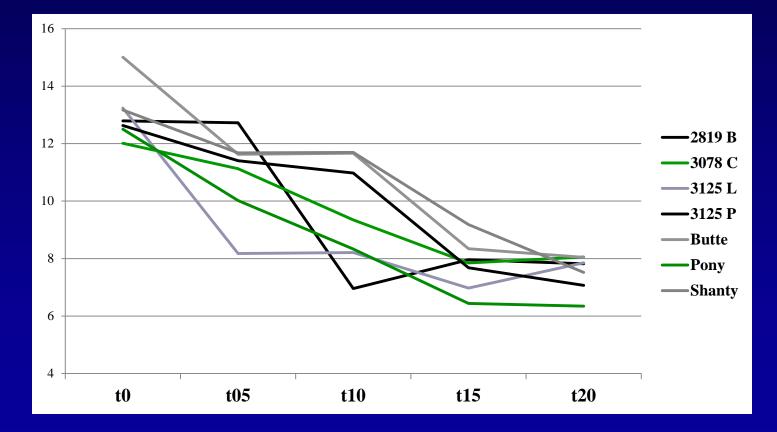
Al Kader - UC. Davis Marita Cantwell - UC Davis Hector Aguilar - FHIA Honduras Sergio Torres Portuguez – ITCR Costa Rica Raul Guerra – UW Madison and UNA Nicaragua

Post Harvest evaluation Wisconsin, Costa Rica and Nicaragua Days to breaker





Fruit firmness compared to checks



Another huge challenge for us ⁴⁶ Post harvest seed technology

Drying beads – Kent Bradford

• We will to organize a summer workshop to transfer the beads and technology to our women's groups, butseeking to somehow fund this.....

Drying beads Inter-CRSPing



Technolgy to Dry seeds for Longer term storage

Rhino Research and Kent Bradford

Curse of success: achieved many goals, but is it a sustainable business for our women's groups?

 seed business is not trivial need more technology and business skills

Knowledge, Technology, hands-on experience