

Seed Production Issues for Processing Tomatoes, Now and in the Future

- Hybrids – why, where, how, and when
- Issues
- the future



Why?

- Hybrids generally out yield open pollinated varieties
- Hybrids are usually more widely adaptable and more consistent
- Breeding progress is quicker; it is easier to stack disease resistance and other traits.

Where?

Due to the need for hand pollination and low cost labor.....

- China
- Southeast Asian countries
- Chile, other South America
- Other areas

How?

Hybrid Seed Production in Tomato

R.T. Opeña, J.T. Chen, T. Kalb and P. Hanson

October 2001
AVRDC pub # 01-527

- Hand cross pollination
- Male sterility exists but not practical





Tomato flower





ms®
specialist



Part of Bayer CropScience

CTGA Annual Meeting, January 30, 2013



nunhems®

the global specialist



Part of Bayer CropScience

CTGA Annual Meeting, January 30, 2013







unhems®
lobal specialist



Part of Bayer CropScience

CTGA Annual Meeting, January 30, 2013

















Part of Bayer CropScience

CTGA Annual Meeting, January 30, 2013



When?

- Production is scheduled and planned at least one year in advance of seed sales
- For 2013 season, the planning was at the end of 2011
- Seed production takes 150 days from sowing to harvest
- Front end time ... 2-3 months for planning, shipping of parent seeds
- Back end (seed processing in production location , shipping, seed processing in Seed Co., testing, packaging, distribution) 3-4 months.

Issues in hybrid seed production

- Dependent on hand labor to perform cross pollinations
- Changing economics in traditional producing countries
- Rising labor costs and/or competition with manufacturing jobs
- Political or trade instabilities
- Local disease issues and disease free seed
- Demand for high quality seed
- Export and import regulations
- Timing of production vs market demand
- Inventory risk



The Future.....

How to have seed production security/ reliability/ assurance.....

- The PT Industry should continue to stay aware and question
- It is the business of seed companies to take actions to stay competitive
- Expansion into new production areas or use new techniques
- Is there enough inventory for two+ year supply in the event of a catastrophic event?
- The idea of producing in the U.S.



Thank you!



Part of Bayer CropScience

CTGA Annual Meeting, January 30, 2013