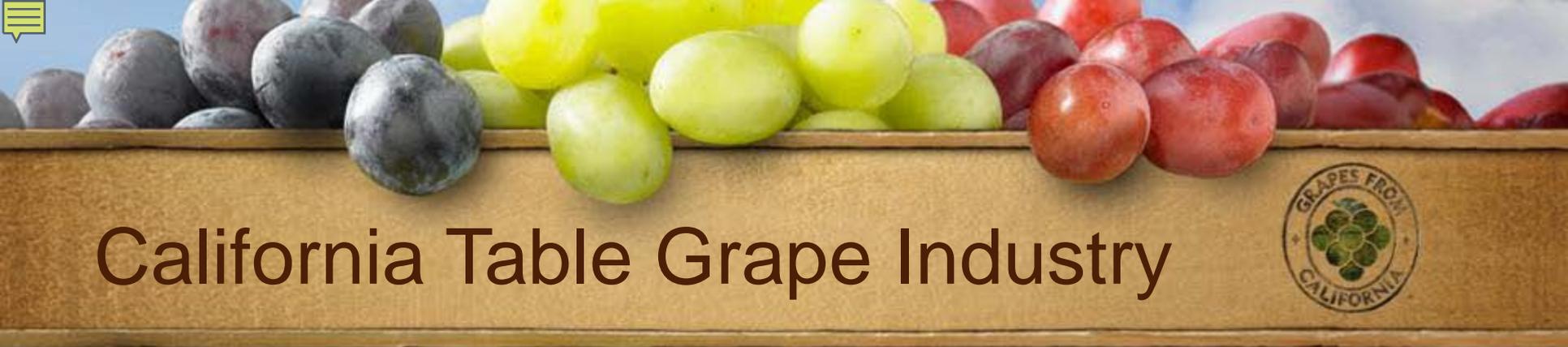
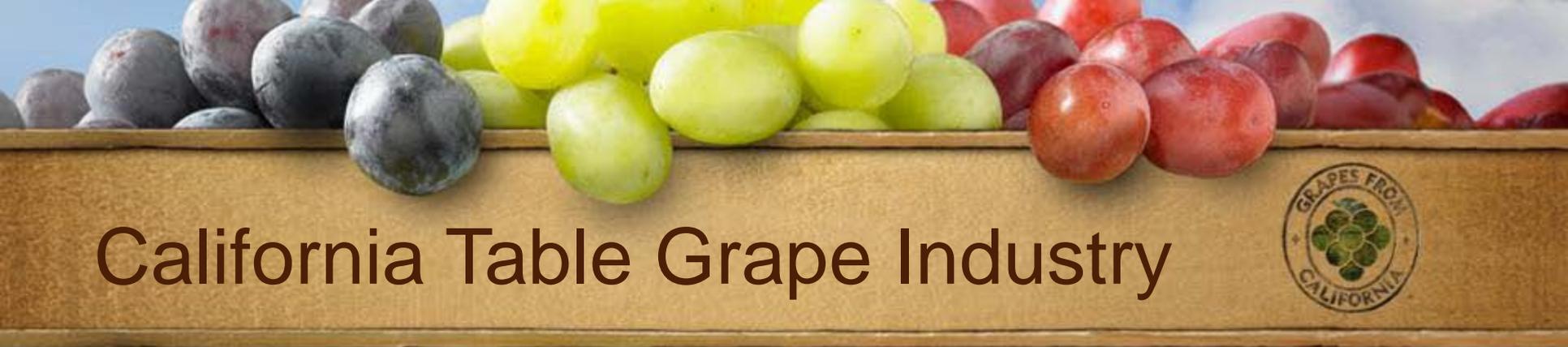


# California Table Grape Commission



# California Table Grape Industry

- Approximately 500 farmers
- Produce 98 percent of the commercially grown table grapes in the U.S.
- Major growing areas:
  - Southern San Joaquin Valley
  - Coachella Valley
- Over 70 varieties grown
- Available May through January



# California Table Grape Industry

- Acreage: stable and averaging about 100,000 bearing
- Shipments: averaging 92 million box units past five years
- Crop value (FOB): record high in 2009 at \$1.37 billion; over \$1 billion since 2004
- U.S. consumption: stable at nearly 8.5 pounds per person
- Exports: stable at approximately 40 percent
- Top markets (2009): Canada, China, Australia, Indonesia, Mexico and Taiwan



# Viticulture Research



- 39<sup>th</sup> year of viticulture research & outreach
- Nearly \$12 million in funding



# Viticulture Research

- Categories
  - Cultivars & Rootstocks
  - Cultural
  - Pest & Disease Management
  - Postharvest
  - Other



## Viticulture Research – 1970s

- Red Globe developed/released by UC Davis (1980)
- Flame Seedless and Emperor cultural practices
- Grape IPM program developed
- Shatter, bruising and browning being addressed



# Viticulture Research – 1980s

- USDA breeding program – Crimson Seedless and Fantasy Seedless released
- Flame Seedless production practices, trellising and training, drip irrigation scheduling and fertigation
- Grapeleaf skeletonizer eradication and leafhoppers manageable
- Improved SO<sub>2</sub> fumigation practices



# Viticulture Research – 1990s

- USDA breeding program – Autumn Royal, Princess and Summer Royal released
- Production/cultural and dormancy practices developed
- Mealybug and black widow spider control
- Total utilization SO<sub>2</sub> fumigation



## Viticulture Research – 2000s

- USDA breeding program – Sweet Scarlet, Scarlet Royal and Autumn King released (and patented/licensed)
- Production/cultural/postharvest practices developed for earlier-released varieties
- Vine mealybug pheromones and mating disruption
- Postharvest treatments for control of invasive pests and other pests of concern to international trading partners



# Viticulture Research

- Coordinated project funding with:
  - American Vineyard Foundation
  - CA Competitive Grant Program for Vit/Enology
  - CA Grape Rootstock Improvement Commission
  - CA Raisin Marketing Board
  - Viticulture Consortium West
  - National Grape & Wine Initiative



# Viticulture Research – 2010

## ■ 2010-11 CTGC projects

■ Cultivars/Rootstocks	8 projects	\$226,905
■ Cultural	3 projects	58,935
■ Pest/Disease Mgt.	3 projects	61,500
■ Postharvest	5 projects	258,730*
■ Other	<u>3 projects</u>	<u>125,000**</u>
	22 projects	\$731,070

\*Includes a project funded by TASC (\$50,721)

\*\*Includes two NGWI/SCRI projects (\$100,000)



# Viticulture Research – 2010

- **Cultivars and Rootstocks (8 projects)**
  - **USDA/ARS**
    - David Ramming – Development of seedless grapes
    - David Ramming – Evaluation of selections in Coachella
    - Peter Cousins – Breeding resistant rootstocks
    - Lance Cadle-Davidson – Next generation markers
    - Lance Cadle-Davidson – Powdery mildew resistance
  - **University of California**
    - Andrew Walker – Breeding resistant rootstocks
    - Howard Ferris – Search for resistant rootstocks
    - Jennifer Hashim – Evaluation of rootstocks
    - Carmen Gispert – Evaluation of selections in Coachella



# Viticulture Research – 2010

- Cultural (3 projects)
  - USDA/ARS
    - Joseph Smilanick – Influence of calcium salts and other compounds on quality
  - University of California
    - Jennifer Hashim – Influence of calcium salts and other compounds on quality
    - Jennifer Hashim – Practices for Sweet Scarlet and Scarlet Royal
    - Mark Matthews – Practices to modify berry properties and susceptibility to cracking



# Viticulture Research – 2010

- Pest and Disease Management (3 projects)
  - USDA/ARS
    - Joseph Smilanick – Fungicide effectiveness to minimize *Botrytis*
  - University of California
    - Michael McKenry – Movento, more than an IGR
    - Kent Daane – Sustainable controls for vine mealybug



# Viticulture Research – 2010

- Postharvest (5 projects)

- USDA/ARS

- Joseph Smilanick – Evaluation of ozone fumigation to control postharvest decay
    - Spencer Walse – MB and alternative treatments to control SWD
    - Judy Johnson – Cold storage treatment for SWD

- University of California

- Elizabeth Mitcham – Control of BWS
    - Elizabeth Mitcham – Control of LBAM



# Viticulture Research – 2010

- Other (3 projects)
  - NGWI/SCRI (multi-institutional)
    - Sustainable vineyard water management strategies
    - Intelligent vineyard monitoring for improved production and quality
  - University of California
    - Mary Lu Arpaia – Sensory evaluation of experimental selections



Thank you!