San Diego County Farmers: Challenges and Opportunities

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CLIMATE ACTION AND AGRICULTURE SYMPOSIUM

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Presentation Overview

- ◆ San Diego County Agriculture
- San Diego County Grower Needs Assessment
- ◆ Challenges to Local Farmers
- Assets & Opportunities for Local Agriculture
- Concluding Comments

Small/Numerous Innovative Different High Value UNIQUE Adaptive Urban Diverse Hobby Farms **Expensive! Not Your** HIGH TECH Average Farm

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What Used to be!

About San Diego County:

◆ Location and Size

- √ 4200 square miles, with 300,000 acres in agricultural production
- ✓ Most Southwestern County, next to busiest border crossing in the World

Great Weather/Climate

- ✓ Described as most nearly perfect in the USA
- ✓ Mediterranean...warm winters and cool summers

Urbanized County

- ✓ 5th most populous county in the US with 17th largest agricultural economy
- ✓ Affluent and educated customer base

◆ Diverse Topography & Microclimates

- √ 30 types of vegetation communities
- ✓ Year round production with 200+ crops grown

San Diego County Agriculture:

Large Number of High Value Crops Produced

- √ 200 crops grown commercially with 44 valued at more than \$ 1 mill/year
- √ Highest dollar value/acre in California

Prominent Ranking at State and National level

- ✓ Number one nationally in value of nursery, floriculture, and avocados
- ✓ 5th largest industry (behind Defense, Manufacturing, Tourism & Biotech)

♦ Expensive Irrigation Water

- √ \$1200/acre feet is highest in the USA
- ✓ 25 Irrigation districts in the county, limited & poor quality ground water

♦ Expensive Agricultural Land

- ✓ Land prices driven by real estate value
- ✓ Poor soils, mostly decomposed granite

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Growers Needs Assessment

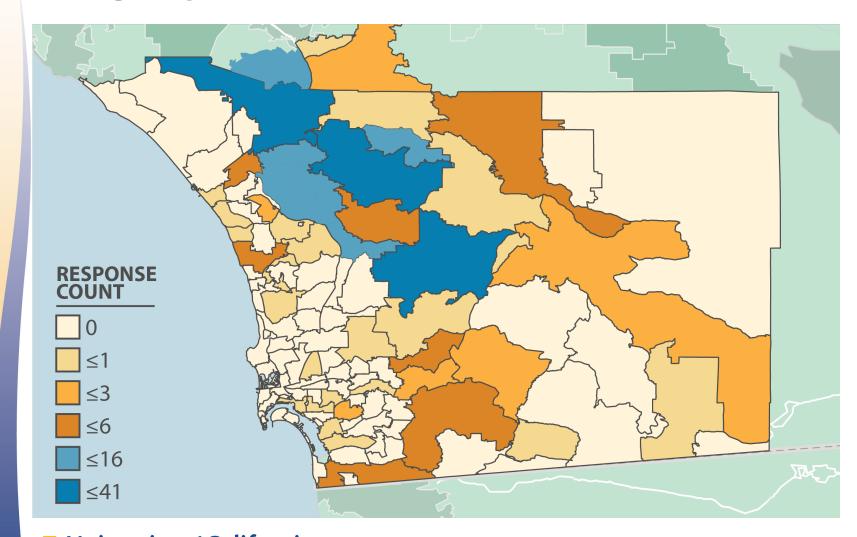
Methods:

- Descriptive Cross Sectional census survey
- Survey developed with local stakeholder input
- Administered using Qualtrics
- Targeted commercial farm operators/managers
- 86 questions, 8 core topics

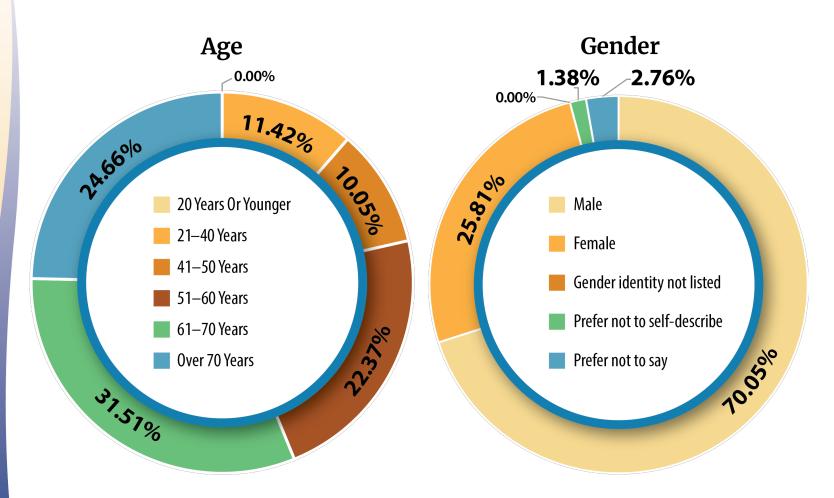
Results:

- 296 valid responses, representing an 18.4 response rate
- Good representation of small/large & urban/rural farms

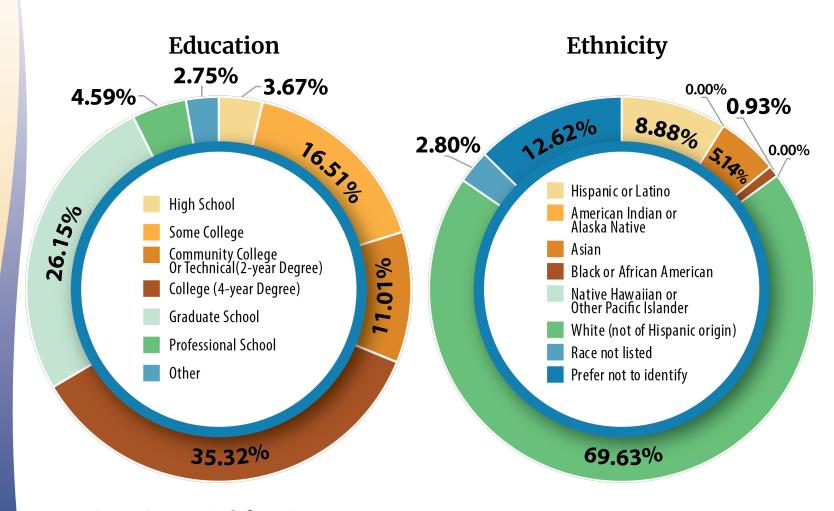
Geographic Location of Farms



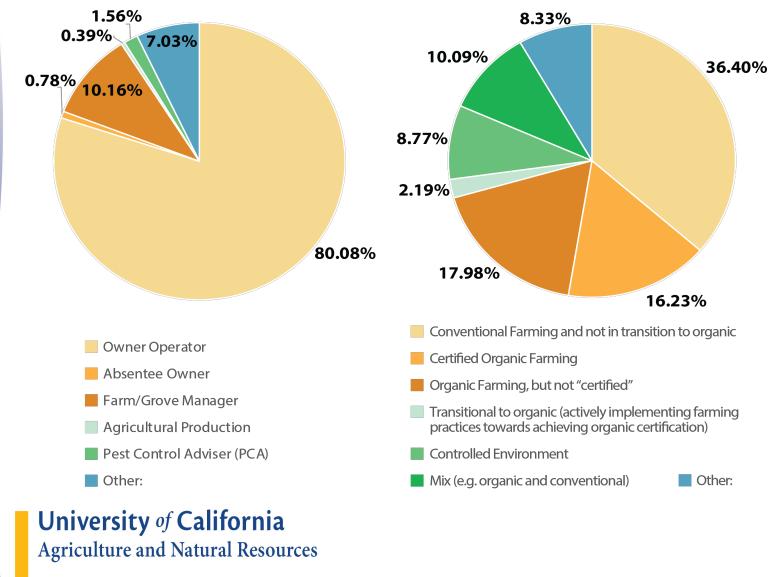
Age and Gender Distribution



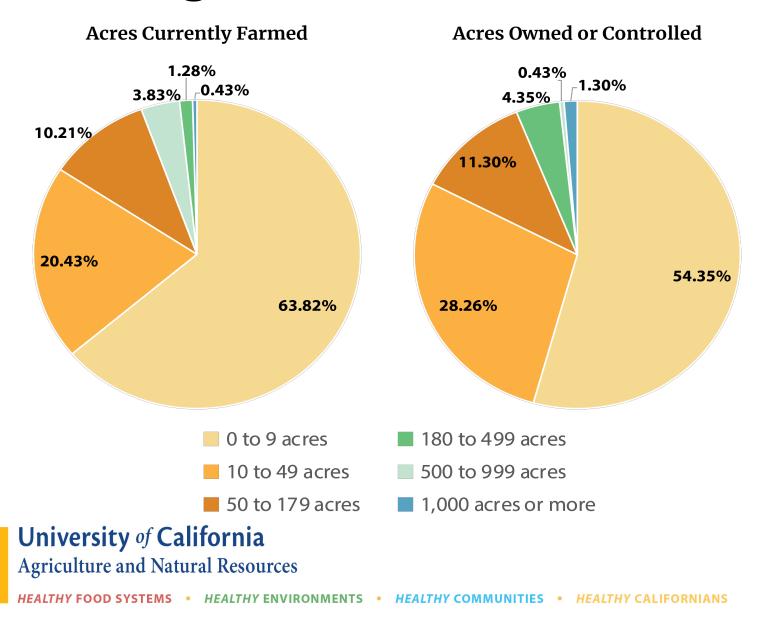
Education and Ethnic Breakdown



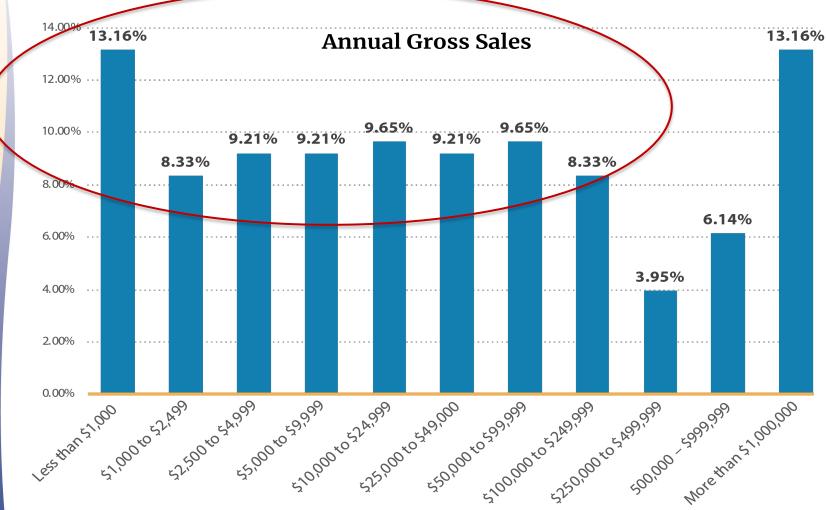
Primary Role & Production Systems



Acreage Farmed/Owned

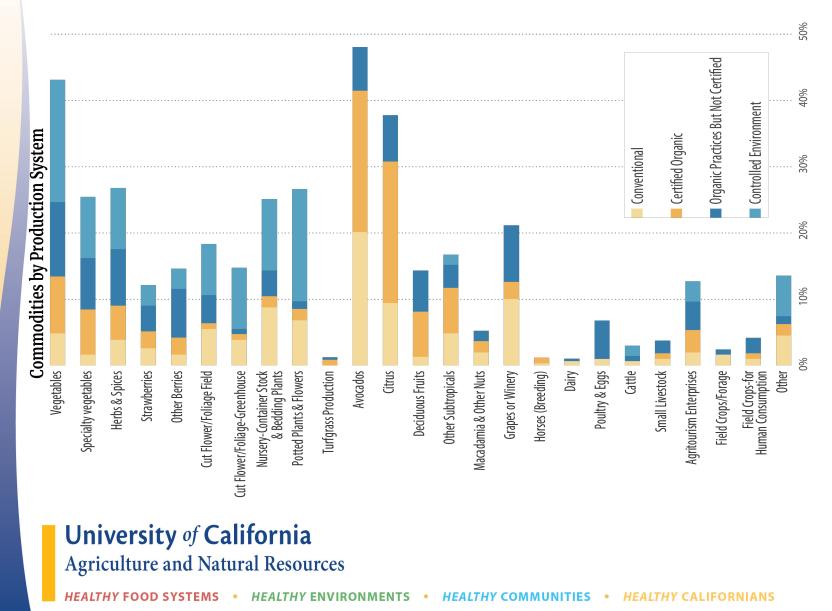


Annual Gross Sales by Farm

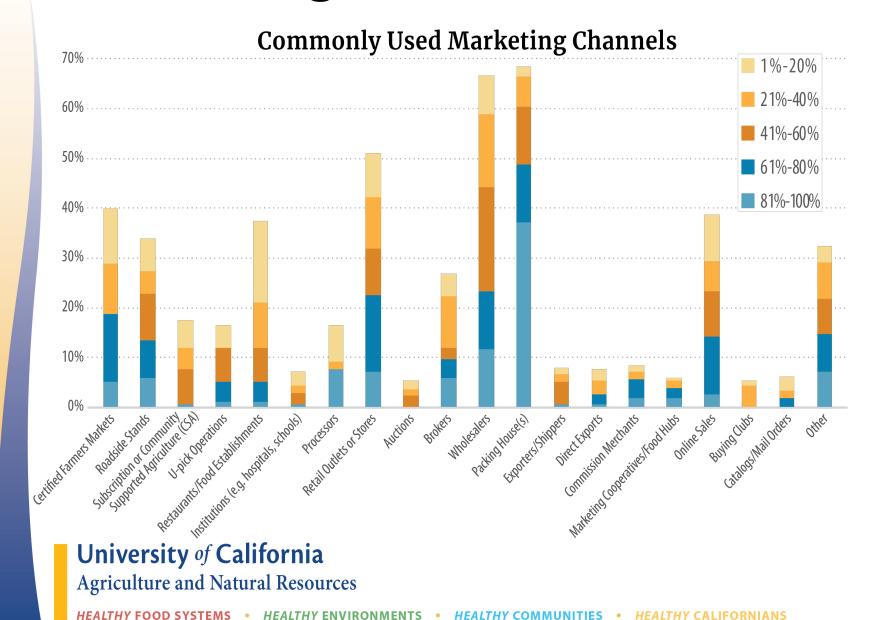


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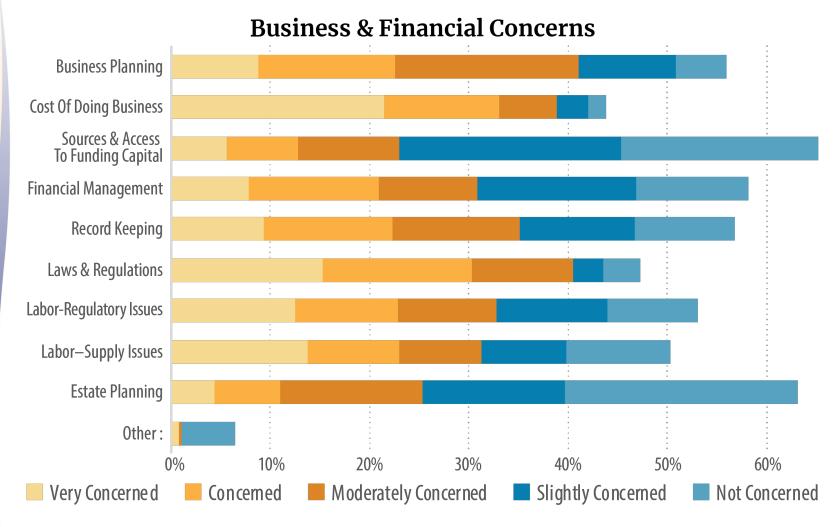
Commodity by Production System



Marketing Channels Used

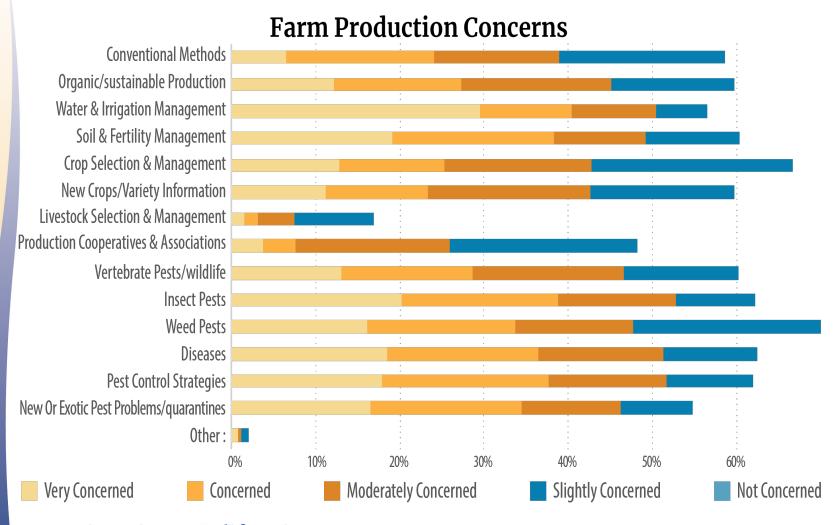


Business & Financial Issues

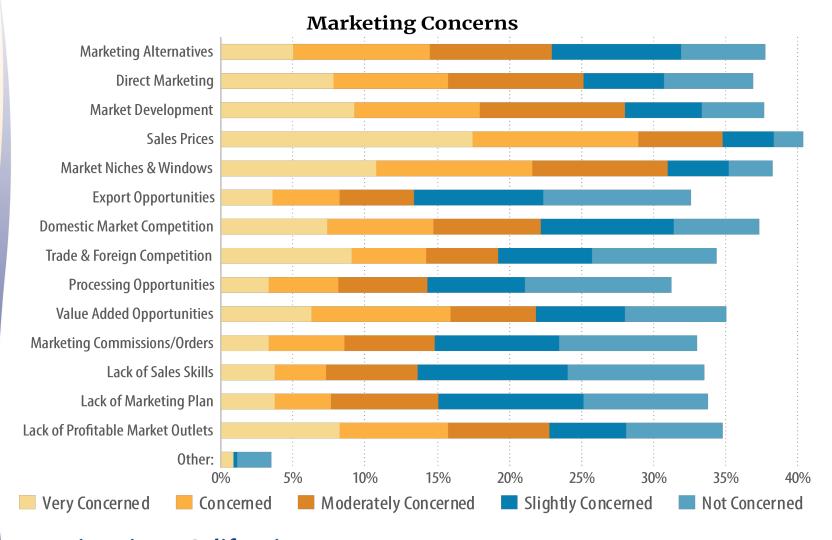


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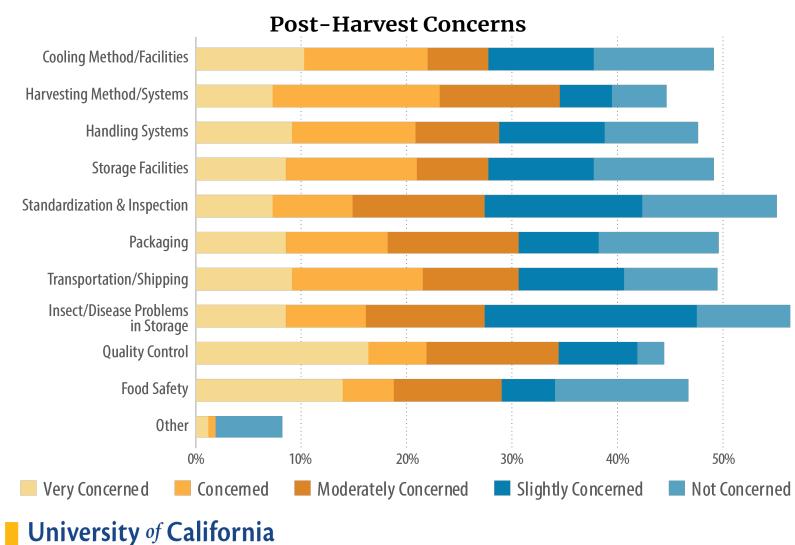
Farm Production Issues



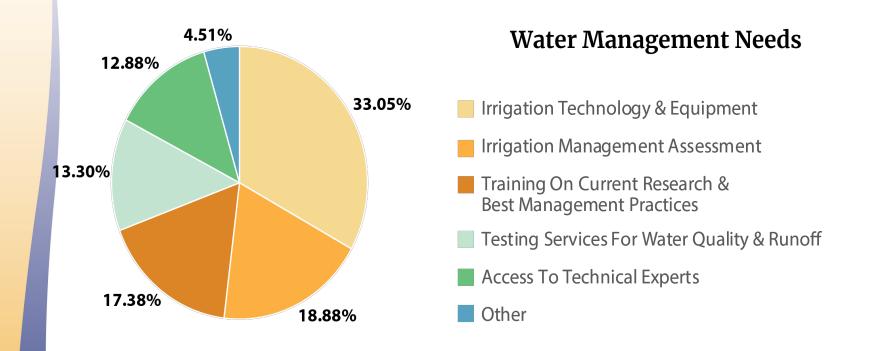
Marketing Issues



Post-Harvest Management Issues

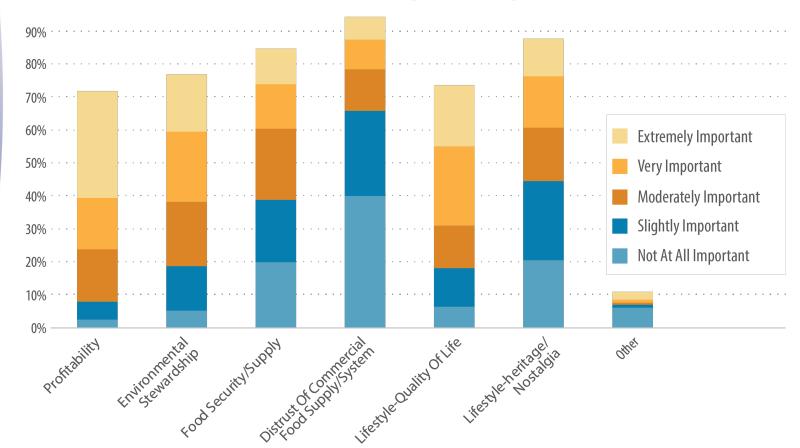


Water Management Issues



What Motivates Farmers?

Motives Influencing Farming Decisions



Other Facts About Local Farmers

- 74 % of respondents or significant other receive nonfarm income
- 76 % use smart phones and computers to manage their farm operations
- 55 % use outside labor and 64 % manage their own hiring vs. use of labor contractors
- 48 % responded that cost is most significant barrier to adopt new farming practices
- 74 % expressed a desire to expand under profitable market conditions
- Most access information through online sources
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Major Challenges Identified

- Land and Water availability and prices
- Imports/Foreign Competition
- Growth and Urbanization
- Aging farmers/Succession planning
- Laws and Regulations
- Exotic pest problems/quarantines
- Farm labor supply, regulations and costs
- Declining profits (low prices/high costs)
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Assets & Opportunities

- County demographics/ethnic diversity
- ◆ Large local and/or regional markets
- Well developed Infrastructure
- Market trends/Marketing opportunities
- Opportunities for value-added activities
- Excellent climate, year-round production
- ◆ Favorable regulatory environment (AB551 Urban Agriculture, AB1616 Cottage Foods, AB1258 Farm Stays)
- Educated consumers willing to support local farms



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UC Cooperative Extension, San Diego

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The Future of Local Ariculture?



Questions/Comments:

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San Diego County Farmers

The typical farmer in San Diego is a highly educated white male over 50 years of age with an off-farm job or income.

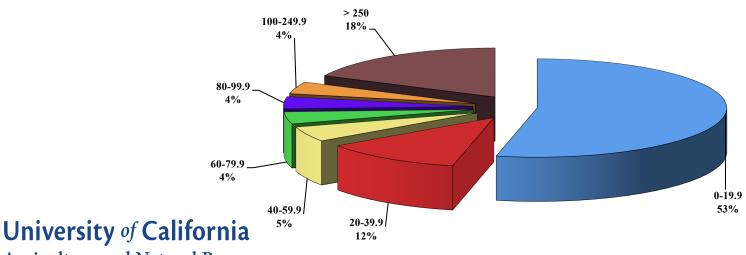
Other facts about local farmers:

- Most are knowledgeable and experienced growers
- Most (87%) farmers own the land they farm
- Most (71%) use conventional production methods and marketing channels
- Most use computers in their farm operations

San Diego County Agriculture:

- **♦** Farms are Small and numerous
 - √ 6687 farms in 2011, largest number in US
 - ✓ 68 % of Farms are 9 acres or less with a median size of 4 acres
 - ✓ Large number of female operators (27 %)
- 82 % of Farms are Small using USDA def.

Gross Sales per Farm Operation (US \$ 1000s)



San Diego County Agriculture

Summary of Major Categories

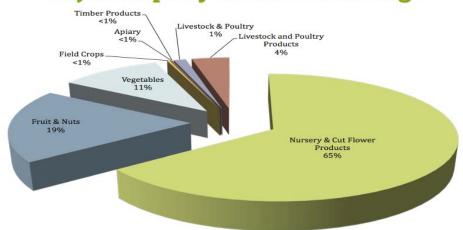
Crop	Year	Acres	Total Value	
Nursery & Cut Flower Products	2011	12,173	\$1,092,916,550	
	2010	12,606	\$1,107,558,336	
Fruit & Nuts	2011	33,838	\$319,205,955	
	2010	36,239	\$257,548,442	
Vegetables	2011	6,686	\$177,013,955	
Field Crops	Majo	or Crop	s By Overall I	Percentage
Apiary	Tim	ber Products - <1% Apiary <1% -	Livestock & Poultry 1% Livestock and Pou	ltry

Timber Products

Livestock & Poultry

Livestock and Poultry Products

Grand Totals

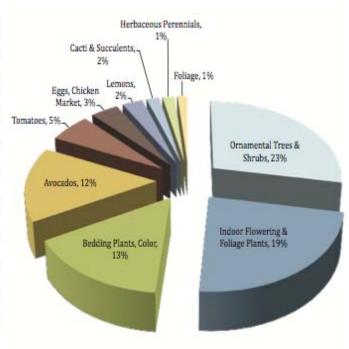


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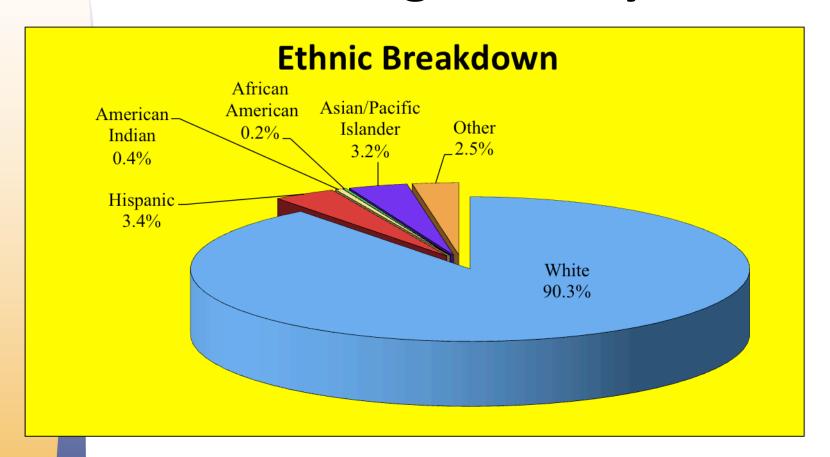
San Diego County Agriculture

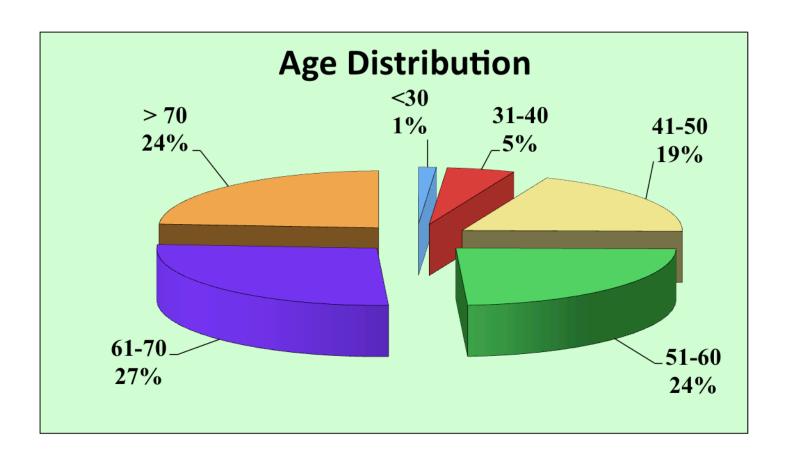
2011 Top Ten Crop Values and Percent

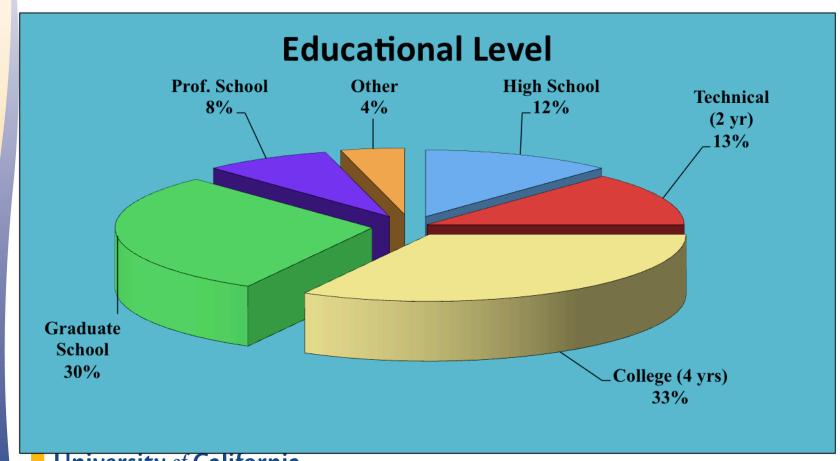
Crop	2011 Value	2010 Value	
Ornamental Trees & Shrubs	\$384,433,569	\$418,841,523	
Indoor Flowering & Foliage Plants	\$320,850,000	\$292,500,000	
Bedding Plants, Color	\$213,900,000	\$214,941,018	Tor
Avocados	\$208,131,027	\$147,051,864	
Tomatoes	\$81,899,165	\$86,774,565	
Eggs, Chicken Market	\$54,665,626	\$75,904,920	
Lemons	\$40,718,400	\$39,885,636	
Cacti & Succulents	\$25,333,188	\$25,153,520	
Herbaceous Perennials	\$24,125,273	\$26,235,355	
Foliage	\$19,938,534	\$19,986,120	



Adapted from San Diego County Agricultural Commissioner's 2010 County Crop Report



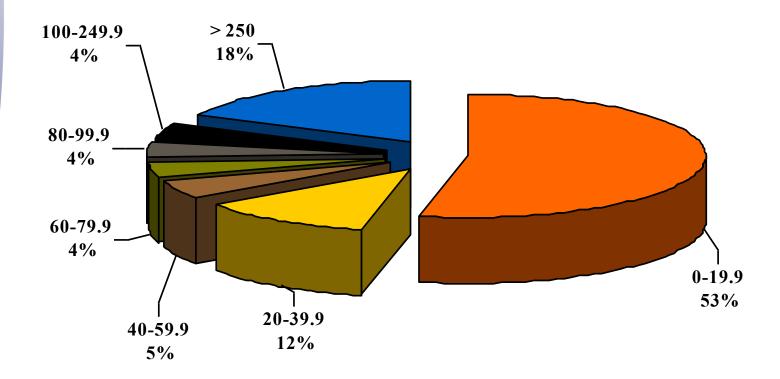




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82 % of Farms are Small

(Gross Sales per Farm Operation in US \$ 1000s)



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Large Number of Organic Farms

San Diego has the highest concentration of organic farms of all counties in the state.

Top 10 Organic Crops	Acres	
1. Avocados	2,551	
2. Oranges	1,277	
3. Lemons	967	
4. Grapefruit	499	
5. Tangelos/ Tangerines	183	
6. Chard	136	
7. Cucumbers	69	
8. Blueberries	63	
9. Beans, Fresh Market	58	
10. Persimmons	43	

Organic Farming







Beans, fresh market

San Diego is at the forefront of organic farming with 347 registered organic producers. In 2011, San Diego organic growers produced over 150 different crops, from squash and tomatoes to jujube. The USDA's National Organic Standards Board defines "organic agriculture" as

an ecological production management system that promotes and enhances biodiversity, biological cycles, and soil biological activity. It is based on minimal use of off-farm inputs and on management practices that restore, maintain, and enhance ecological harmony.

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The Facts:

Nursery and Cut Flower Crops

Crop	Year	Acres	Total
Bedding Plants, Color	2011	930	\$213,900,000
	2010	937	\$214,941,018
Bulbs, Corms, Rhizomes, Roots, Tubers	2011	41.5	\$346,525
	2010	58	\$5,842,456
Cacti & Succulents	2011	282	\$25,333,188
	2010	280	\$25,153,520



Top 10 Organic Crops	Acres	
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Keys for Success?

- Creative marketing and market driven crop or enterprise selection
- Produce water efficient, niche or high profit margin crops
- Develop identity & increase demand for local agricultural products
- Capitalize on San Diego's popularity as tourist destination
- Coordination, collaboration & public education
- Improve planning and management skills!
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Age Distribution

