

# UCCE Riverside County Program Report 2016-17

## University of California Agriculture and Natural Resources

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### Cooperative Extension (CE)

- CE is an institution within land grant Universities established to conduct research and outreach to the public using both campus and county based local programs.
- The institution was established by Smith Lever Act in 1914, using USDA's partnership with land-grant universities to conduct research and education in agriculture.
- Then the program progressed adding other disciplines such as Nutrition, Natural Resources, 4H youth development, Master Gardening in both rural and urban areas.
- Today-adapting to changing times-extension programs expanded into urban areas with emphasis in food security, health of people, and health of environment.
- For more historical background:  
<https://nifa.usda.gov/history>

### Historical Background

- During World War I – CE focused in increasing agricultural production— emphasis in increase of wheat production.
- In the Depression Era:
  - The focus was in efficient exchange of goods; establishing marketing cooperatives and networking of sellers and buyers.
  - Nutrition and health education was added.
- During world War II:
  - The focus was to secure food increase.
  - Established 4H programs to train and encourage future farmers.
- Post World War II, emphasis was on technology innovation; with increase in population came increase in feeding capacity.

### The University of California Cooperative Extension



- UCCE was established in 1914, the same year as the establishment of the Smith Lever Act that legislated the national cooperative Extension system in the land grant universities.
- UCCE is under the Division of Agriculture and natural resources (UC ANR) of the University of California. UC ANR links the people of California to the University of California to receive practical solutions to everyday problems through local expertise, nine Research and Extension Centers, and statewide programs. UC ANR offers programs and activities all over the state. More at: [http://ucanr.edu/We\\_Are\\_UCANR\\_UCANR/](http://ucanr.edu/We_Are_UCANR_UCANR/).
- Glenda Humiston is the VP for UCANR.



**UCCE Mission and Goals are to:**

- Conduct applied research and;
- Teach the public and encourage adoption of information to:
  - Improve food production and ensure food security,
  - Live healthy life (improve health and nutrition),
  - Develop youth skills, leadership and, good citizenship,
  - Maintain better environment.
- For strategic vision to 2015; visit <http://ucanr.edu/files/907.pdf>

**Role of County based UCCE staff**

- UC ANR has housed UCCE programs in almost all counties with partnership of county governments established via a Memorandum of Understanding (MOU).



- County programs are conducted by the leadership of Academic advisors:
  - Conducting local research and education for adoption by local businesses, residents and institutions.
  - Linking the campus faculty at UCB, UCD, UCR and Merced and experiment stations researchers and educators and:
    - Bringing cutting edge technology and information to local problem solving.
    - Identifying local issues/problems for research to be done on the campuses and experiment stations.

**UCCE Riverside County**

- The County of Riverside is one of the pioneer counties to establish a UC cooperative Extension department; just 3 years after the establishment of the UC Cooperative extension.
- A MOU signed in May of 1917 established 100 years partnership between UC and the County of Riverside.
- In the partnership:
  - UC provides researchers (advisors) and educators in agriculture, nutrition and consumer sciences, and 4H youth development. In 1980 UC ANR added another important component, the Master Gardener program.
  - We have 18.25 UC paid FTE: 5.25 academic advisors researchers and educators and 12 educators.
  - The county of Riverside provides operational budget (such as leases, communication, supplies, travel, etc.) and support staff: currently 5 FTE.
  - UCCE Riverside’s direct budget in 2016-2017 was ~\$3.24 m. of which:
    - UC’s contribution ~ 79% and the county’s contribution ~21%.
    - In addition to the direct funding and staff assignment, UCCE Riverside also receives services (research and education) from 5 University paid cross county advisors from Imperial and San Bernardino counties as well as researchers from the various campuses and experiment stations.
    - UCCE Riverside also train and work with volunteers in the 4H and Master Gardener programs with estimated value of services exceeding \$13.5 m. per year.
    - Overall, UC Cooperative Extension is creating activities (provides means for conducting programs) worth more than \$23.82 for every \$1 funding of the county.

**UCCE Riverside County Programmatic Areas: Some highlights of projects and activities 2016-17**

- Advisors conducted 73 research and educational projects: 35 in agriculture and 25 in Nutrition and 4H combined, 13 in sustainable environment.
- Educational meetings attendances run ~3,330 for agriculture; 11,735 for nutrition and consumer sciences; ~400 in 4H and 199 events in MG.
- Examples of research and educational programs include:

**Crop Production**



*Viticulture varietal selection: The viticulture advisor in collaboration with USDA evaluated 9 USDA advanced selections: 4 green, 3 reds and 2 blacks (all seedless). Long term project resulted in Valley Pearl, early green registered and available for early marketing and attracting high returns.*



*Subtropical horticulture and Farm Management: Mitigating the high cost of water in southern California avocado production: High density planting trial is being evaluated for effects on yield, irrigation water use efficiency, pruning, returns and production costs.*

**Crop Disease**

**Crop Disease Management**



*The vegetable crops program continuously tackles crop diseases to save crop losses: Here the advisor is showing diagnosing celery diseases: Fusarium culture inoculation—recommendation grower improves transplanting practices.*



*Evaluation of strategies to protect young grapevines of Canker Disease, the viticulture advisor is working to develop protocols.*



*Excessive lemon fruit drop in the Coachella Valley; collaborative research is ongoing to determine the cause. The subtropical horticulture advisor is conducting grower survey to assess production practices.*

**Pest Management**



*Palo Verde Valley, Crop Production Program Pest management is one of the major focus: Here the advisor is conducting trail to answer questions from producers if insects are reducing seed crops of new forage grasses such as Teff.*



*We are on the lookout for the Asian Citrus Pysllid (ACP); also recently on the lookout for the South American Palm Weevil (APW). We are conducting ongoing grower education for protection for ACP; also grower meetings (2018) will be conducted in the Coachella Desert regarding prevention and management of APW along with UCR Specialist, Mark Hoddle.*

**Master Gardener**



*260 Master Gardeners Volunteers (67 Master Gardeners in Training); Statewide county average is 120 volunteers 21,780 volunteer hours; statewide county average is 7,700*

**4H Youth Development**

*4-H clubs 22; 4-H enrollment 933; Hispanic 436; Latino Youth in 4-H 46.7%; Latino Youth in the County 58.2%A total of over 400 projects were undertaken by 700 youth each completed 6 hours of hand-on instruction; 22% completed a leadership project and 200 held a leadership position within their club. Volunteers' contribution estimated at 282,360 hours.*



*Youth Experiences on Science*

UCCE Riverside County Program Report 2016-17 cont'd

**Nutrition**

*Shaping Healthy Choices Program Initiated in Riverside*



*Students planted a cultural garden for Shaping Healthy Choices Program. The new program led to a new school garden, increased nutrition knowledge, and enhanced partnerships—collaboration of Master Gardener program and Schools*



*Youth EFNEP/UC CalFresh: Direct Ed  
-Reaching ~10,000 youth/year  
-Youth acquire the knowledge, skills, and attitudes to choose nutritionally sound diets.  
-Students learn to: develop healthy eating habits-choose healthy snacks; increase physical activity; practice handwashing*



Sample quarterly newsletter disseminates research based information to thousands of subtropical crops growers statewide



*Adult EFNEP/UC CalFresh: Direct Ed  
-Reaching ~1,000 adults/yr-Participants learn to:  
Plan nutritious meals  
Increase physical activity  
Stretch their food dollar  
Practice safe food handling  
Prevent obesity through healthy lifestyles.*

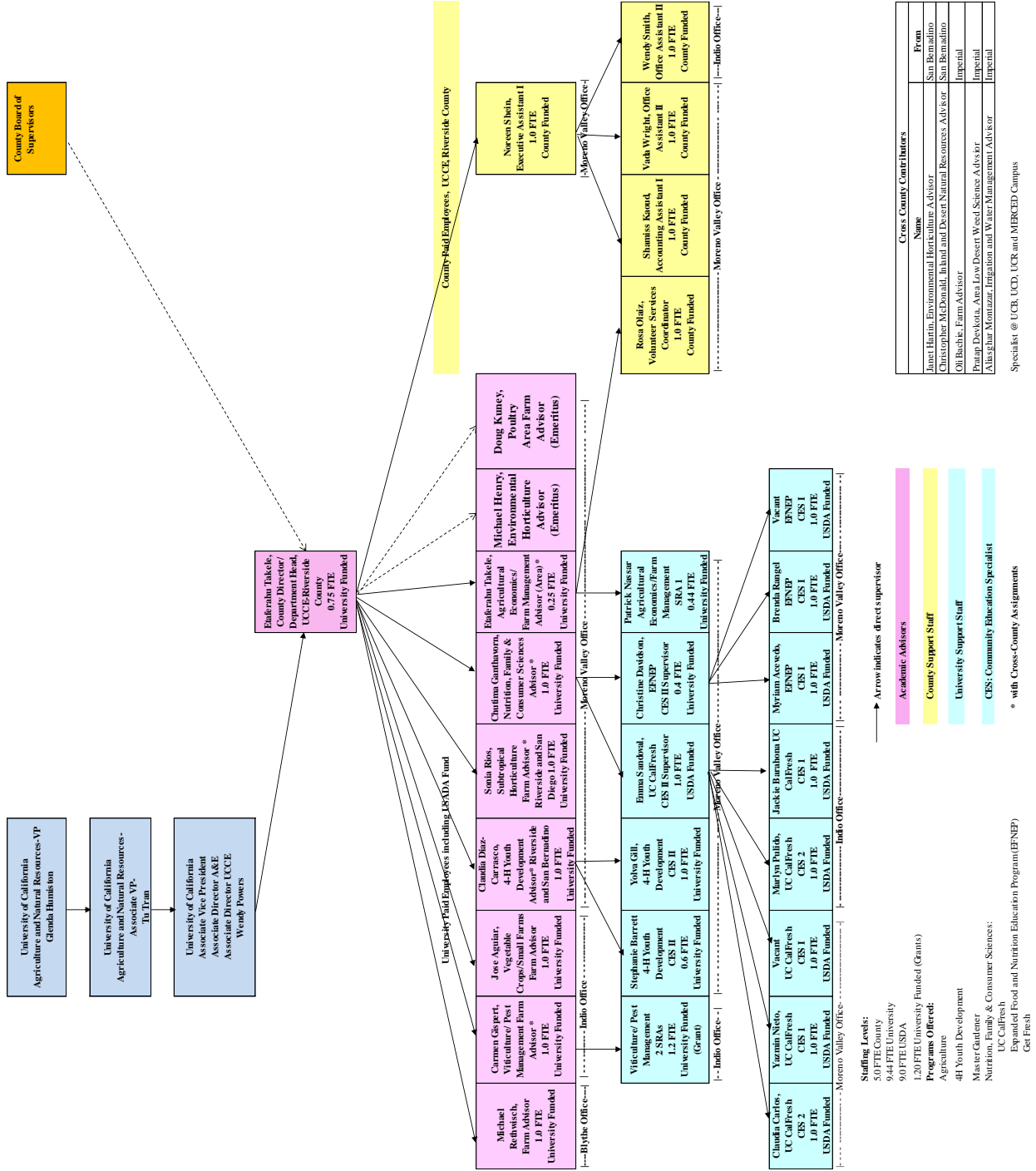


<http://ceriverside.ucanr.edu/>  
<http://ucanr.edu/>

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# University of California Cooperative Extension (UCCE) Riverside County Organizational Chart, 02/23/2018



**Master Gardener Program: 2018 Riverside County Fair and Date Festival**



**4-H Program: Desert Sandblasters at 2018 Riverside County Fair and Date Festival**





## SAMPLE EDUCATIONAL OUTREACH

**University of California**  
Agriculture and Natural Resources



# DESERT AGRICULTURE AND NATURAL RESOURCES SYMPOSIUM

*For growers, landscapers, & agriculture professionals*

**February 28, 2018**

**At UCR Palm Desert Auditorium**

**75080 Frank Sinatra Drive, Palm Desert, CA**

**Morning Session: 8:00 AM – 11:30 AM**

(FREE – no registration required)

Learn about desert research and education activities from UC experts and about services and programs offered by other desert non-profits.

(Lunch available on-site between sessions for a nominal fee)

**Afternoon Session: 12:15-5:30pm** (\$40 if pre-registered by Feb. 23):

Attend one of the three workshops sponsored by UC ANR & CAPCA specifically, oriented for the desert agriculture industry:

- ✓ **Crop Production/Irrigation** (3.5 DPR, 5 CCA, 2 ISA, 3.5 CCN Pro CEUs approved)
- ✓ **Landscape/Turf Management** (5 DPR, 5 CCA, 4 ISA, 5 CCN Pro CEUs approved; GCSAA points pending).
- ✓ **Livestock Production** (No CEUs)

**Registration for the Afternoon Session is mandatory on the CAPCA Website; Topics and Speakers are Listed:** <https://capca.com/events/palm-desert-capca-ed-uc-anr-desert-agriculture-landscape-symposium/>

*For more information contact: Oli Bachie (442-265-7700), Janet Hartin (951)313-3023 or Eta Takele (951)683-6491 Ext.*

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