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Calendar

For a listing of industry events and dates for the coming year, please visit:

<http://www.californiaavocadogrowers.com/commission/industry-calendar>

CAC Executive Committee Web/Teleconference

October 2

October 2

Time: 10:00 a.m. – 11:15 a.m.

Location: Web/Teleconference

CAC Finance Committee Web/Teleconference

October 6

October 6

Time: 2:00 p.m. – 3:30 p.m.

Location: Web/Teleconference

CAC Web/Teleconference Board Meeting

October 7

October 7

Time: 10:00 a.m. – 1:05 p.m.

Location: Web/Teleconference

Pine Tree Ranch Grower Open-House

The California Avocado Commission is hosting a Pine Tree Ranch Open House for members of the avocado industry. Visitors can take a walk around the ranch and check in on fall flush, fruit sizing, tree growth, and research project progression. There will be no formal program. **Registration required** - A maximum of five visitors will be allowed per 30-minute time slot beginning at 9:00 a.m. and ending at 1:00 p.m. [More information here.](#)

October 15

October 15

Time: 9:00 a.m. – 1:00 p.m.

Location: Pine Tree Ranch, 19455 East Telegraph Road, Santa Paula, CA

Economic Impact Studies Demonstrate How California Avocado Industry Strengthens State's Economic Climate

In August 2020, the California Avocado Commission retained the Tootelian Company to conduct an assessment of the economic impact California avocado growers and handlers have across the state and within avocado-producing counties. Copies of the statewide and individual county reports are now available online (see the links in the right-hand navigation).

According to the statewide and county reports, California avocado growers and handlers play a significant role in strengthening California's economic climate generating economic activity, jobs, labor income that fuels household spending, and business taxes that help fund State programs.

Highlights from The Economic Impact of Avocado Growers and Handlers in the State of California are as follows. Overall, California avocado growers and handlers generate:

- More than \$1.5 billion per year in economic output.
- More than 14,510 full-time equivalent jobs due to their business activities and the fact that their purchases create jobs in a variety of economic sectors.
- More than \$666.7 million per year in labor income that is diffused throughout the State as households spend this income on a variety of goods and services.
- Nearly \$40.9 million annually in indirect business taxes that can help pay for portions of various State programs that benefit California communities.

To learn more about how California avocado growers positively impact communities across our state, click on one of the links below to access the full report.

- [The Economic Impact of Avocado Growers and Handlers in the State of California](#)
- [The Economic Impact of Avocado Growers in San Diego County](#)
- [The Economic Impact of Avocado Growers in Riverside County](#)
- [The Economic Impact of Avocado Growers in Ventura County](#)
- [The Economic Impact of Avocado Growers in Santa Barbara County](#)
- [The Economic Impact of Avocado Growers in San Luis Obispo County](#)
- [The Economic Impact of Avocado Growers in Monterey County](#)

- [The Economic Impact of Avocado Growers in the Combination of Orange, San Bernardino and Los Angeles Counties](#)
- [The Economic Impact of Avocado Growers in the Combination Tulare, Fresno and Kern Counties](#)

Managing Avocado Heat Damage

The following article discusses how avocado trees adapt to heatwaves, damage that can be caused by these events and what California avocado growers can do to aid the recovery of heat-damaged trees in their groves.

What Happens to an Avocado Tree During a Heatwave?

Under normal conditions, an avocado tree is extracting water from the soil through its roots, which moves through the tree and exits through leaf pores known as stomates. Stomates can open and close to regulate the flow of water vapor out of a plant and the entry of carbon dioxide for photosynthesis. The opening and closing of stomates is driven by plant hydration, temperature, relative humidity and wind. The loss of water from a plant's leaves through the stomates acts as an evaporative cooler, maintaining leaf temperature close to that of air temperature.

The purpose of closing leaf stomates under high temperature and/or low humidity is to slow the movement of water from the soil, through the plant, to the atmosphere. If this "flow" is too rapid, the water column — which is under very high tension — can snap, resulting in the formation of an air bubble (embolism) in the water conducting tissue (xylem) of the plant. These air bubbles are nearly irreversible and can lead to permanent damage to the plant.

Avocados evolved in a very moderate climate. As a result, they are poorly adapted to the high temperatures and low humidity that is common in California. Research conducted in the mid-1990s at the University of California, Riverside (UCR), looked at the leaf function of avocados in Irvine at the South Coast Research and Extension Center and on the UCR campus. What they found is that trees that grew in a hotter average climate (UCR campus) were better adapted to high temperatures, but photosynthesis drop off and stomates closed during the afternoon in both locations. Their data show that avocado stomates begin to close when air temperatures rise above about 88 °F.

During a heatwave, the avocado tree's response is to close its stomates to prevent excess water loss and the development of embolisms. This results in leaf temperature increasing because the evaporative cooling has been reduced. Under extreme conditions — such as a mild season interrupted by an excessive heat wave — the leaves and small stems of the tree will overheat and literally cook. The rapid onset of a sudden heatwave means the trees have virtually no acclimation to the high temperatures.

Sample Damage from July 2018

In July 2018 young trees were severely damaged or even killed in an extreme heatwave that struck after a mild season. The greater space between young trees, compared with mature trees, allowed the heat to fully surround the trees, exposing them to high temperatures from all sides. Young trees also have less mass and smaller diameter branches. As a result, they have less water content relative to surface area and heat up much more quickly than large trees. Lastly, young trees simply don't have the extensive root system and reserves to weather an event like this and likely closed their stomates sooner than a more mature tree. Mature trees and trees about four years old and older tended to fare much better than the young trees. Damage to the mature trees was primarily across the top of the canopy and on exposed sides of the trees.

As leaves wilted from the heat, they exposed fruit and branches that were previously shaded. This resulted in sunburn damage to small and, in some cases, large branches. These damaged branches may sprout in time, but without some intervention they will never be healthy, fully functional branches in the tree canopy.

Fruit suffered both direct and indirect damage from this heatwave. Mature fruit exposed to heat can become very hot. At the recent Brainstorming meeting in South Africa, a Chilean consultant showed a picture, taken with a thermal imaging camera, of a bin of fruit — half of the bin was shaded and half was not. The shaded fruit had a surface temperature of about 75 °F, whereas the exposed fruit had a surface temperature approaching 110 °F — and this was not under heatwave conditions! Current season fruit on the trees during this recent heatwave softened and became unmarketable. There also is some evidence that a heatwave like this can cause changes in the composition of the various oils in the avocado, resulting in decreased fruit quality.

Young fruit for next season, like a young tree, have very little mass and heat up very quickly. These fruit reached at least ambient temperature all the way to the center of their developing seed, and may have even exceeded ambient temperatures. As a result, the fruit became soft, their developing seed shriveled, and they are no longer viable. In addition, many of these young fruit were severely sunburned as the surrounding leaves wilted and exposed them to direct sunlight.

Recovery

Many growers have probably heard the analogy: treat it like a freeze, wait and see. While this is true, there are some nuances missing in this analogy. Following a freeze, it is difficult to know the full extent of the damage and where the dead tissue ends and live tissue starts. Thus, the common advice is to wait until the tree begins to regrow, indicating where the living tissue is, and then prune back to this new growth. In the case of a freeze, this usually takes several months since we're not in an active period of growth for the tree. And that is the big difference — our trees want to grow now!

In most cases, trees damaged by the heatwave are already sprouting and showing you where the living tissue is. Once this new growth appears, it is safe to come in and prune the dead and damaged wood from the tree. However, sunburn protection is critical!!! Remember, you will be pruning these trees in the middle of summer and they will require protection to prevent more damage. It is very important to pay attention to the weather forecasts and use your best judgement before pruning. If another hot spell is coming, it would be best to wait until temperatures return to more normal levels. Hopefully, by late August or early September the danger of high heat events will be past and it will generally be safe to prune.

Whitewash must be applied the day of pruning — it takes only a very brief exposure to full, mid-day sun for previously shaded branches to burn. Some growers prefer to whitewash their trees prior to pruning. They do this to prevent the whitewash from coating the pruning wound and inhibiting the normal wound healing response of the tree. If using this approach, be sure that all exposed branches are protected after the pruning is complete, and apply additional whitewash if needed. Typical whitewash is a diluted latex paint — use 1-part paint to 1-part water up to 1-part paint and 3-parts water — but some growers, particularly those who are certified organic, prefer to use a natural kaolin clay product (e.g., Surround®).

The most devastating aspect of the July 2018 heatwave was the timing. Most trees were beginning to produce that year's summer flush — where the spring 2019 bloom would set to produce the 2020 crop — when the heat hit. Thus, the effects of the heatwave will be impact several years.

For young trees, those less than about 3 years old where most of the canopy is damaged, the goal should be to get leaves back on the trees before the end of this season. Once the trees are growing, prune away the dead and damaged branches and whitewash the tree. Be judicious with your water and fertilizer application. Remember, the leaf area on these trees has been drastically reduced and thus, so has their water need. Hand fertilizing with a good quality water-soluble complete fertilizer, rather than fertigation, would be a good way to nurse trees through recovery. This will allow you to tailor the amount of fertilizer applied to each tree based on its level of damage and regrowth.

For larger trees (about 4 years old and older) and mature trees, where only a portion of the canopy is damaged, it's likely there will be some bloom the following year. These trees also should be pruned once new growth starts and whitewashed as needed. However, unlike with young trees, the reserves of these larger trees will result in a more rapid regrowth. It is important to modify irrigation schedules to account for canopy loss to ensure the larger trees are not over-watered, but their greater size provides some buffering capacity and regular fertilization can resume once new growth starts. It is probably best to reduce the duration of each irrigation set, but maintain the frequency of irrigations to avoid additional undue stress from drought that may occur if irrigation frequency is reduced.

The damaged tissue from a heatwave provides a massive opportunity for avocado branch canker (*Botryosphaeria* and *Colletotrichum* fungi) pathogens to enter the trees. It is critical that the damaged branches be removed from the trees before the possibility of winter rains arrive. The damaged tissues are essentially open wounds in the trees. When the groves get rain, or even high moisture from heavy fog, the avocado branch canker pathogens will release their spores into the air, which will land on the damaged leaves and branches, forming latent infections. When conditions are right, those spores will germinate, and growers will see severe cases of avocado branch canker. Thus, it is critical to begin the cleanup process quickly to prevent more severe damage down the road.



An example of young 2019-crop Hass avocado fruit damaged by the sudden July 2018 heatwave. The fruit flesh is soft and the developing seed has shriveled.

PPE Available for Agricultural Workers in Santa Barbara and San Diego Counties

The Santa Barbara County Agricultural Commissioner's Office has a variety of personal protection equipment (PPE) currently available to assist members of the agricultural industry. Supplies are limited and availability is temporary.

- N95 masks are available for outdoor agricultural workers due to poor air quality caused by wildfires.
- N95 masks for pesticide handlers are available due to PPE shortages.
- Surgical and cloth masks are available for agricultural workers to help prevent the spread of infection or illness. The surgical/cloth masks are not suitable for pesticide use.
- Medium and large vinyl gloves are available for agricultural workers to help prevent the spread of infection or illness. The gloves are not suitable for pesticide use.

If you are in need of the above-noted PPE, please call one of the offices listed below. You will need to provide the name of the business, the number of agricultural workers or pesticide handlers, the type of masks needed and for what required use. A pick up time will be assigned, as the offices are currently closed to the public. Recipients are encouraged to bring a container in which to carry the supplies.

- **Santa Barbara office** — 805.681.5600
- **Santa Maria office** — 805.934.6200
- **Buellton office** — 805.688.5331

The County of San Diego Department of Agriculture, Weights & Measures also has N95 respirators available for agricultural pesticide applicators and handlers, as well as agricultural workers affected by dust/smoke from the wildfires.

The N95 particulate respirators are:

- For businesses that apply pesticides for agriculture and businesses that produce an agricultural commodity (must have Operator ID)
- Limited to 200 per agricultural business

Additional PPE available include hand sanitizer bottles, vinyl and nitrile disposable gloves and cloth face coverings. Supplies will be available October 2 from 9:00 a.m. – 3:00 p.m. at the North Inland Live Well Center located at 649 W. Mission Avenue in Escondido. No appointments are necessary and supplies will be picked up via drive through. Recipients are advised to estimate their PPE needs for three months and provide that number to staff when picking up the items.

California Avocado Growers Now Eligible For CFAP 2 Payments

President Donald J. Trump and U.S. Secretary of Agriculture Sonny Perdue today announced up to an additional \$14 billion dollars for agricultural producers who continue to face market disruptions and associated costs because of COVID-19. Signups will begin this Monday, September 21 and run through December 11, 2020, for this next round of Coronavirus Food Assistance Program payments (CFAP 2).

Producers whose agricultural operation has been impacted by the pandemic since April 2020 are encouraged to apply for CFAP 2. Payments will be made for three categories of commodities: Price Trigger Commodities, Flat-rate Crops and Sales Commodities.

Based on CAC staff review California avocado producers are eligible under the Sales Commodities category. Payment calculations will use a gross sales value of 2019 production, where producers are paid based on five payment gradations associated with their 2019 sales (table below).

A complete list of eligible commodities, payment rates and calculations are available on farmers.gov/cfap. Please note: to see avocados listed follow this link farmers.gov/cfap/specialty, scroll down to the “Specialty Crop” tab, then open the “Tree Nut” link.

With the expanded CFAP 2 program it is anticipated there will be an over demand for the \$14 billion dollars. **Accordingly, California avocado growers are strongly encouraged to file your claim as soon as possible, beginning on Monday, September 21, 2020** (<https://www.farmers.gov/cfap>). Growers are eligible to receive payments (averaging around 10%) of your 2019 gross sales value. It appears the application process will be straightforward. To complete the CFAP 2 application, producers will need to reference their sales, inventory, and other records for 2019.

More information about CFAP 2 is in the full announcement (<https://www.usda.gov/media/press-releases/2020/09/18/usda-provide-additional-direct-assistance-farmers-and-ranchers>).

CFAP 2 Payments for Sales Specialty Crops

Payments for Specialty Crops will be based on the producer’s 2019 sales of eligible commodities in a declining block format using the following payment factors, and will be equal to:

1. The amount of the producer’s eligible sales in calendar year 2019, multiplied by
2. The payment rate for that range.

2019 Sales Range	Percent Payment Factor for the Producer’s 2019 Sales of Eligible Commodities Falling in the Range
\$0 to \$49,999	10.6%
\$50,000 to \$99,999	9.9%
\$100,000 to \$499,999	9.7%
\$500,000 to \$999,999	9.0%
Sales over \$1 million	8.8%

California Avocado Commission to Host Pine Tree Ranch Grower Open-House

Pine Tree Ranch has many projects progressing this year and, due to COVID-19, we have been unable to hold our usual meetings. On October 15, the California Avocado Commission is hosting an Open House for members of the avocado industry. Visitors can take a walk around the ranch and check in on fall flush, fruit sizing, tree growth, and research project progression. There will be no formal program.

The Pine Tree Ranch region hit 117 °F with the recent heat wave and the trees came through with minimal damage, but visitors can be the judge. Danny Klittich with Redox will be there to answer questions concerning fertility programs, Doug O’Hara with Somis Pacific will be there to answer questions about ranch management, and Dr. Tim Spann from the Commission will be there to discuss on-going research plots with visitors.

Thursday October 15, 2020

9:00 am — 1:00 pm

Pine Tree Ranch

19455 East Telegraph Road

Santa Paula, CA 93060

Please note that to comply with COVID-19 social distancing requirements this event requires an RSVP. A maximum of five visitors will be allowed per 30-minute time slot beginning at 9:00 a.m. and ending at 1:00 p.m. Please email Tim Spann at tim@spannag.com to reserve your time slot. Time slots will be available on a first come, first served basis. We appreciate your cooperation during these unusual times as we strive to continue to provide outreach to the California avocado grower community.

Avocado Branch Canker Virtual Field Day Video and Materials Available Online

On September 17, 2020 avocado researchers and industry members from around the world joined the California Avocado Commission’s Avocado Branch Canker Virtual Field Day to review some of the latest research concerning this ubiquitous disease and pose questions to two of the world’s leading researchers.

The presenters for the event were as follows:

- Dr. Themis Michailides, Professor of Plant Pathology at the University of California Davis Kearney Agricultural Research and Extension Center, is one of the world’s leading experts on Botryosphaeriaceae, the group of fungi

responsible for Avocado Branch Canker. Dr. Michailides shared insights from his CAC-funded research project examining exactly what pathogens cause avocado branch canker in California, the extent of their presence in California avocado groves, why they have become more problematic and how they can be managed.

- Dr. Liz Dann, Principal Research Fellow with the Queensland Alliance for Agriculture and Food Innovation at the University of Queensland, Australia, has worked extensively on avocado diseases in Australia and recently started studying the role of the Botryosphaeriaceae in flower blight of avocados in Australia. She shared her knowledge of these pathogens and the impacts they have had on avocado production in Australia.

Presentations from this event are available in the right-hand navigation [here](#). In addition, the recording of the virtual field day and question-and-answer session can be viewed on the [California Avocado Commission's YouTube channel](#).

If you have additional questions concerning Avocado Branch Canker or flower blight, please reach out to the panelists as follows:

- Dr. Tim Spann — tim@spannag.com
- Dr. Themis J. Michailides — tjmichailides@ucanr.edu
- Dr. Elizabeth Dann — e.dann@uq.edu.au

San Diego and Ventura Counties Launch Lodging Programs for Agricultural Workers Affected by COVID-19

To assist agricultural workers who have tested positive for COVID-19 or who may have had close contact with someone who tested positive, San Diego County and Ventura County have initiated temporary housing programs so individuals can safely isolate or quarantine.

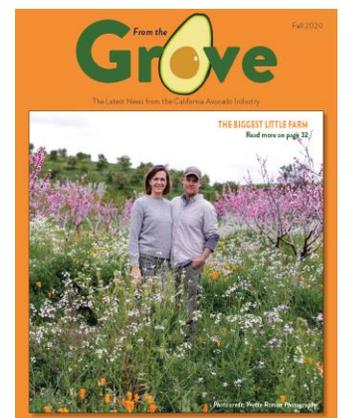
As part of the Housing for Harvest program, the County of San Diego's Temporary Lodging program provides free shelter for agricultural workers who need to isolate or quarantine due to COVID-19 and are able to function independently. In partnership with local hotels, individuals will be provided with a clean, secure room, three daily meals and access to laundry and trash services. Daily wellness checks will be performed by registered nurses via phone or in-person. Behavioral health services also are available. Affected individuals should call 211 to be connected with someone who can help them gain access to the supporting services.

Ventura County's Project Roomkey program has secured free housing options at local motels in Ventura, Oxnard and Newbury Park for agricultural workers affected by COVID-19. County agencies provide transportation, medical and mental health care, meals and on-site security. Individuals are medically evaluated before they are cleared for participation in the program. Individuals in need of these services should call 211. For more information, contact Tara Carruth at 805.654.3838.

Fall 2020 Issue of From the Grove Available Online

The latest issue of From the Grove is now available [online](#). Highlights from the Fall 2020 issue include:

- California Avocado Commission (CAC) President [Tom Bellamore](#) reviews CAC's swift marketing adjustments made in order to adapt to lifestyle changes caused by the COVID-19 pandemic



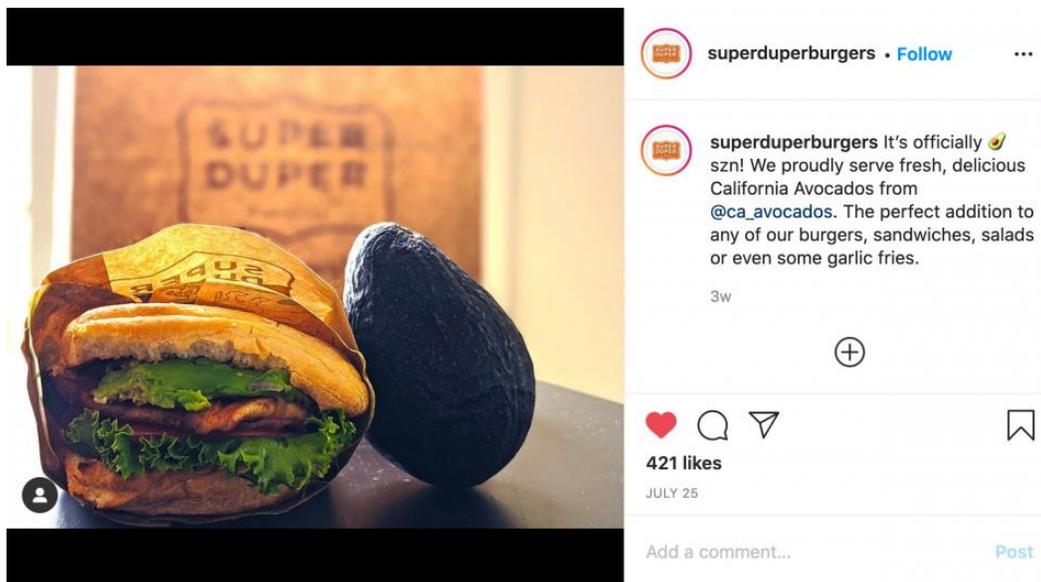
- [John Lamb](#) comments on this extraordinary year and encourages growers to get involved with the Commission in his final column as CAC Chairman
- CAC’s Vice President Marketing [Jan DeLyser](#) reflects on how her team adapted its marketing plans in response to COVID-19 and social unrest
- Highlights from [CAC’s foodservice promotions](#) and how they supported a struggling industry — and boosted California avocado awareness — during the pandemic
- An introduction to the Commission’s [Living Well Brand Advocates](#) who serve as trusted third-party resources for California avocado recipes and content
- A look at how CAC [partnered with retailers](#) to lessen their workload during the pandemic and drives sales of California avocados
- A broad view of the [Commission’s impactful social media campaigns](#) designed to address consumer interests and concerns
- A summary of the most promising [California avocado candidate rootstocks](#) and recent commercial-scale field trials
- An examination of how [Southern California’s water quality has been impacted](#) this past year
- An update on advances in [avocado tissue culture](#) research
- A review of [avocado lace bug](#) biology and potential controls
- A profile of [The Biggest Little Farm](#), home to California avocado growers Molly and John Chester
- A reprint of “[California in Transition](#),” by Cirad and the Hass Avocado Board, which examines the avocado industry in the Golden State
- A portrait of the untapped potential of the [avocado market in Africa](#)

Super Duper Burgers and Mixt Promote Fresh California Avocados During Peak Season

Two California-based restaurant chains encouraged diners to take advantage of peak California avocado season by venturing out and picking up unique California avocado menu items at one of their locations. Thirteen Mixt locations across the state showcased the fruit from July 6 – July 30, with a dozen Super Duper Burgers locations in Northern California running California avocado promotions from July 25 – August 31.

With foodservice chains facing unprecedented challenges due to COVID-19, the California Avocado Commission (CAC) helped each chain develop eye-catching digital and social media promotions with California avocado branded assets in an effort to drive interest in each chain’s unique California avocado menu items. Rich images of California avocado groves, the California Avocados brand logo and avocado beauty shots were coupled with engaging California avocado facts on the chains’ Instagram and Facebook pages. In addition, both Super Duper Burgers and Mixt featured their “local sourcing” partnership with California avocado growers, proudly touting the benefits of supporting local agriculture on their websites.

By partnering with foodservice restaurant chains, the Commission can build awareness around the California avocado season and generate excitement for the fruit with chain menu offerings that appeal to a broad range of culinary lifestyles. Promotions such as these benefit California avocado growers by encouraging sales, assist the Commission’s foodservice partners and expose consumers to new ways of enjoying the fruit, inspiring them to incorporate avocados into their at-home snacks and meals.



Super Duper Burgers touted California avocados as the “perfect addition” to any of their burgers.

“California Avocado Summer at Home” Public Relations Program Secures More Than 60 Million Impressions

With social distancing guidelines in place across the state, the California Avocado Commission (CAC) found a new way to “host” California avocado tasting events for key West Coast media members and influencers — delivering stunning three-course California avocado-centric meals to their doorsteps. These special home deliveries — crafted by three well-known chefs in Seattle, WA, Sacramento, CA and Portland, OR — launched the Commission’s California Avocado Summer at Home public relations (PR) campaign, driving awareness of the premium fruit from late July through early August and securing more than 60 million media impressions.

The Commission partnered with Chef Edouardo Jordan of Salare in Seattle, Chef Mike Fagnoni of Hawks Provisions and Public House in Sacramento and Chef Peter Cho of Han Oak in Portland. Each of the chefs crafted meals featuring California avocados and other seasonal, locally grown produce to demonstrate the versatility of the Golden State fruit and the importance of supporting local growers and restaurants. Leveraging the culinary creativity of the chefs, CAC then specially delivered the delicious three-course meals to the homes of 10 – 15 media and influencers in each of the three cities.

In addition, the Commission distributed a mat release highlighting peak season availability of the fruit and sharing Chef Mike Fagnoni’s California Avocado and Maine Lobster Roll recipe for consumers to try at home. The recipe was accompanied by a high-quality photo and a quote from the popular and well-regarded Chef Mike.

Local Seattle, Sacramento and Portland influencers and regional media contacts who enjoyed the home tasting event included Simply Recipes, Eat Seattle, Seattle Foodie Podcast and Willamette Week. A total of 38 media and influencers participated.

By providing respected West Coast media and influencers with a premium California avocado experience, the Commission was able to showcase seasonal usages of the fruit during peak season that could then be shared with the influencers’ fan bases across digital and social channels. Generating excitement for the fruit— and sharing inspirational California avocado recipes by respected chefs — encourages consumers to purchase the fruit at their local grocers and prepare similar seasonal meals at home.



Chef Mike Fagnoni's California Avocado and Maine Lobster Roll featured key seasonal ingredients.

California Market Trends

To view all market trend graphs, including “Weekly Volume Summary,” “Weekly Avocado Prices” and “U.S. Avocado Supply,” please visit: <http://www.californiaavocadogrowers.com/industry/market-statistics>.

California Avocado Society Weekly Newslines* Avocado Prices – September 23, 2020

	Conventional #1	Organic #1
California Hass	(Field Price Per Lb)	(Field Price Per Lb)
#32's	\$0.88 - \$1.05	\$1.12 - \$1.18
36's	\$0.90 - \$1.05	\$1.12 - \$1.18
40's	\$0.84 - \$1.00	\$1.04 - \$1.10
48's	\$0.88 - \$1.00	\$1.36 - \$1.42
60's	\$0.60 - \$0.80	\$1.20 - \$1.26
70's	\$0.48 - \$0.60	\$1.22 - \$1.28
84's	\$0.44 - \$0.50	\$0.56 - \$0.62

*To subscribe to the Weekly Newslines, please contact the California Avocado Society at (949) 940-8869 or www.CaliforniaAvocadoSociety.org.

California Avocado Commission Weekly Volume Summary (Pounds)

	Week Ending 9/27/2020	Season-to-Date (since 11/01/2019)	2020 Year to Date
Hass	5,892,891	346,530,790	346,504,547
Lamb	230,882	11,047,287	11,047,287
Other (Greens)	13,704	1,783,752	1,573,937
California Total	6,137,477	359,361,829	359,125,771
Florida	891,220	31,566,253	24,068,495
Chile	500,464	3,275,867	1,195,707
Mexico	49,431,294	1,966,010,287	1,555,525,453
Peru	94,815	184,299,619	184,299,619
Other (Imports)	590,000	43,850,000	35,410,000
Import Total	50,616,573	2,197,435,773	1,776,430,779
USA Total	57,645,270	2,588,363,855	2,159,625,045

Sources:

California = CAC (AMRIC)

Florida = Florida Avocado Admin Committee

Chile = Comite de Paltas, Chile

Mexico = APEAM

Peru = ProHass

Other Imports = USDA AMS website

Crop Statistics

Below are the weekly harvest projections and actuals through week ending 9/27/2020, where year-to-date harvest volumes have exceeded 363 million pounds. Weekly harvest volumes continue to track closely to projections and with less than 10 million pounds remaining to reach the 373-million-pound crop estimate, industry members we spoke with indicate the final crop volume could come in between 380-383 million pounds. While we expect to see weekly harvest rates decrease from the current harvest rates of 6 million pounds, it is anticipated that the actual harvest volumes will exceed projections for the remainder of the season.

**2020 California Crop Weekly Harvest Projection
Weekly Crop Movement vs. Distribution Projections
All Varieties**

Week Ending (CAC Week)	4-Year Historical Forecast	AMRIC Handler Forecast	Industry Adjusted		
	2020 Crop Estimate	July 2020 Update	AMRIC Harvest	AMRIC Shipments	Crop Size Indicator
1st QTR SubTotal	46,970,300	62,797,900	62,632,891	52,385,402	
2nd QTR SubTotal	208,904,900	180,168,200	183,472,758	181,250,607	
Jul 5 - (36)	17,578,200	14,163,600	12,177,567	11,574,500	374,673,325
Jul 12 - (37)	16,410,700	13,601,000	11,798,416	13,322,977	372,105,745
Jul 19 - (38)	15,887,500	10,485,100	10,492,982	15,018,629	372,149,541
Jul 26 - (39)	12,604,900	9,917,300	9,778,341	12,642,478	372,000,478
Aug 2 - (40)	10,048,300	9,504,100	9,606,655	9,872,224	372,159,315
Aug 9 - (41)	8,464,600	9,925,700	9,865,726	9,555,162	372,114,152
Aug 16 - (42)	7,533,300	9,558,200	8,963,219	9,861,463	371,447,339
Aug 23 - (43)	6,154,000	9,476,700	8,183,969	10,729,539	370,029,021
Aug 30 - (44)	5,176,500	8,960,900	8,756,953	9,712,553	369,882,962
Sep 6 - (45)	3,233,000	7,779,100	8,747,545	9,530,575	370,995,973
Sep 13 - (46)	2,491,000	6,776,200	6,209,499	6,981,700	370,435,815
Sep 20 - (47)	2,436,000	6,790,200	6,997,493	8,015,120	370,699,028
Sep 27 - (48)	2,037,600	5,674,000	6,137,477	7,900,578	371,207,626
Oct 4 - (49)	1,089,700	3,120,200	-	-	
Oct 11 - (50)	640,000	1,864,400	-	-	
Oct 18 - (51)	270,900	845,300	-	-	
Oct 25 - (52)	266,400	831,300	-	-	
Nov 1 - (1)	155,900	479,700	-	-	
Nov 8 - (2)	7,700	8,900	-	-	
Nov 15 - (3)	3,800	4,500	-	-	
Nov 22 - (4)	40,600	47,800	-	-	
Nov 29 - (5)	24,100	28,400	-	-	
Dec 6 - (6)	23,600	1,600	-	-	
Dec 13 - (7)	52,800	72,200	-	-	
Dec 20 - (8)	263,300	65,200	-	-	
Dec 27 - (9)	230,300	52,300	-	-	
2nd Half SubTotal	113,124,700	130,033,900			
Season-to-Date	365,930,800	365,578,200	363,821,490	368,353,508	
% of Crop	98%	98%	98%	99%	
Crop Size	373,000,000	373,000,000	Left to Harvest	Left to Ship	
Crop Variance	(2,109,310)	(1,756,710)	9,178,510	4,646,492	

Weather: 30-Day Outlook For California's Coastal & Valley Areas

(September 26 – October 28)

Summary- A long wave trough will be in the central north Pacific north of Hawaii. This will teleconnect with upper high pressure and a tendency for weakening of systems that approach northern California from the west.

As autumn starts to develop, watch for alternation of weak upper and strong upper high pressure with offshore flow (Santa Anas) in S California. What is unusual about this pattern is the possibility of Warm or hot Santa Ana winds also developing in NORCAL, including the Bay Area, Sierra West slope (central and N Sierras), and the Yolla Bolly Mountains of

Trinity, Humboldt and Mendocino Counties. Persistently or recurrently dry, breezy and unusually warm conditions are indicated for October throughout California, both from CFSv2 numerical guidance, and from Fox Weather's IVTinit possibility of upper lows to develop in southern California on occasion, and Pacific cold fronts into northern California.

Tropical cyclones will continue active near Baja California. Thus far these cyclones have been tracking WNW or NW off the coast. However, in October, these tend to recurve inland over Baja, producing heavy rains in Mexico states of Sonora, Sinaloa, Chihuahua, Durango and Guerrero. Tropical cyclones in Mexico may contribute to upper high pressure formation over California, and push unusually hot conditions again into California through mid or even late October.

Looking well ahead... both the CFSv2 and NMME models (North-American-Multi-Model-Ensemble) suggest very hot conditions in both Sept and Oct and continued unusually warm and dry in Nov, with more frequent dry downslope wind events.

According to the very latest NMME model results, Sept and Oct are excessively dry and warm. November is also warm with dry upper high pressure dominant in central and S California. Only North or Northwest California have a chance for some rains per the NMME guidance.

The only month currently shown by CFSv2 with a chance for wetter than normal conditions is Dec 2020 for N and central California. SOCAL, currently, remains drier than normal in Dec.

The most severe issue appears to be the persistent lack of rain during the winter rainy months of Nov, Jan, and Feb. We note that the extremely dry conditions throughout California that develop in Nov return in Jan-Feb 2021, after a hopefully wet Dec. The NMME model suggests that Feb and Mar are both extremely dry through all of California, and anomalously warm.

These dry conditions are consistent with the trend we are already seeing in the sea surface temperature anomaly (SSTA) pattern and by Fox Weather's IVTinit™ maps. With support for cyclogenesis remaining far to the west of California into October.

The stage is currently set for an extremely dry winter. Hopefully a wet December will mitigate this bleak picture somewhat. Currently December also looks dry for most of California except for rainy season, with Dec being the only wet winter month. Warm temperatures in Oct and Nov often associate with dry Santa Ana winds. This year, with the unusually hot summer, there is risk that the usual fire season may not end until Dec when rains finally attempt to return.

Potential Dates of Precipitation (from Fox Weather's CFSDailyAI system):

The listing of dates for warm and cool spells, and for precipitation are based on our CFSDailyAI system, which presents basic trends in precipitation and temperature to 4km. Our system gives some consideration of terrain and coastal influence. We consider the CFSv2 as one of the better ways to represent basic weather down in the sub-monthly time scale beyond the 15 day GFS or monthly CFSv2 maps.

Salinas Valley-San Luis Obispo Co:

Salinas Valley-Central Coast: Precipitation: Marine Layer drizzle maxima: few drizzles/sprinkles from marine layer low clouds 10/5, 10/8-12, 10/13, 10/25-29. Temperature trend: Warm 9/27-28. Hot 9/1-3. Warm 10/14-15. Rainshowers 15th, and 25-27th.

San Luis Obispo/Edna: Precipitation: few drizzle light rains from marine layer 10/5, 10/7-8, 10/15, 10/13. Temperature trend: warm 9/27-29th. Inland: Warm 9/27-29. HEAT: 9/26-29, 10/2-3, , Cool or mild 10/15-16.

Southern California Citrus/Avocado Area, San Luis Obispo Co to San Diego Co:

Santa Barbara, Ventura to San Diego Co - Precipitation: Showers/tstms 10/6-10, 10/15. Temperature Trend: warm to hot 9/28-10/6, cool 10/7-10th, 10/11, 10/15-16.

Orange/San Diego Co's: Precipitation: Marine low clouds: 9/28-29 cool. 10/5-10 showers/cool, 10/15 showers cool. Showers/TSTMS 10/7-8th. Temperature Trend: hot 9/28 through 10/6, Cool 10/7-10/9 from tropical cyclone remnant. In the hot spells, watch for highs in the 100-104 range inland valleys, and 95-100 Escondido.

Summary – October 27 – November 18... Salinas Valley: Central Coast Precipitation: 10/27-31. Hot spells: Warm or hot 10/15-18, 10/22. Cool 10/28-31

San Luis Obispo/Edna: Precipitation: 10/7-8, 10/15, 10/28-31. Hot/Cool spells: Mild 10/12-18, Cool 10/28-29. Hot with Santa Ana wind 10/30 – 11/4.

Southern California - Santa Barbara, Ventura Co's to San Diego Co: Rain unlikely. Hot with Santa Anas 10/29-11/4. Watch for highs in the 95-100 inland valleys, and 90-95 Escondido, ~95 Chino. Possible rain 10/29-31.

Seasonal Outlook - The long range outlook for Nov 1, 2020 – Feb 15, 2021... A dry and warm late fall continues to be indicated, with recurrent Santa Anas for SOCAL and coastal mountains of the central coast, and in the Sierra west slope. December is a little drier than normal for NORCAL, and marginally wet for Central and Southern California. Jan and Feb 2021 currently look quite dry throughout California, as does Nov 2020. This appears to be a La Niña season for 2020-early 2021, with persistent upper high pressure near the coast of N and central California for extended periods. It may be difficult to realize precipitation approaching normal in central and Southern parts of California, including most of the central and part of the north-central Sierra. Temperature anomalies decrease to near normal in Dec and Jan, arguing for about the normal number of frosts and freezes, mainly focusing in Dec, and Jan to early Feb 2021.

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