













# THE CALIFORNIA TABLE Wine Leads the Way in Sustainable Agriculture

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## **CA GROWN FACTS**

- 77,100 farms and ranches
- 400 Commodities
- 25.3 million acres
- 328 acres ave. farm size
- 1/3+ of country's vegetables
- 2/3 of fruits and nuts

Source: California Agricultural Statistics Review 2017-2018

Sustainable agriculture addressed in policy, education, partnerships and programs.









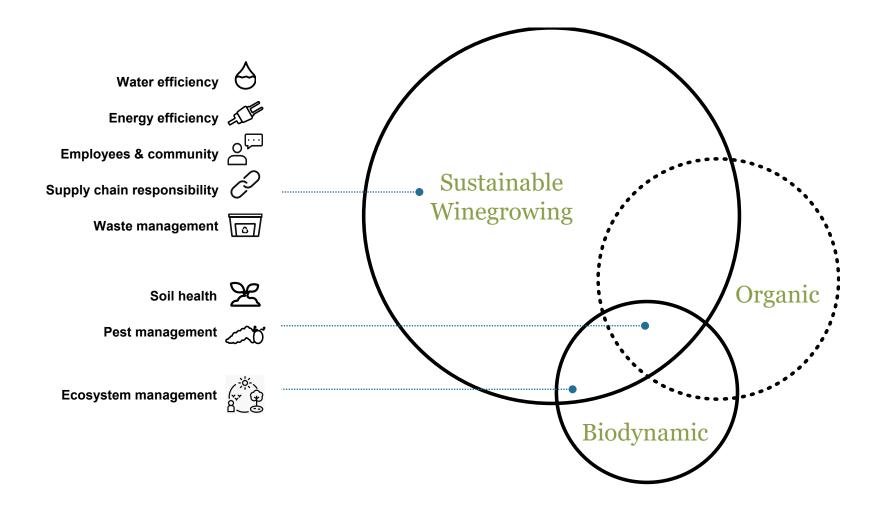


## CA WINE FACTS

- #1 U.S. wine producer, #4 in the world
- 3,900 bonded wineries
- 5,900 winegrape growers farm 637,000 acres of winegrapes
- Over 110 winegrape varieties and 139 AVAs

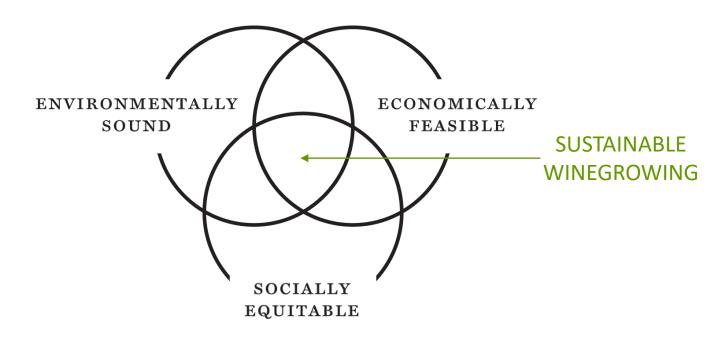
Source: Wine Institute statistics with numerous sources

- 85% of CA's wine is produced in a Certified California Sustainable Winery
- 40% of grapes certified to various sustainability programs, and others certified organic and biodynamic.



## SUSTAINABLE WINEGROWING







## CALIFORNIA CODE OF SUSTAINABLE WINEGROWING

#### 140 Vineyard Practices, 104 Winery Practices

Sustainable Business Strategy

Viticulture

Soil Management

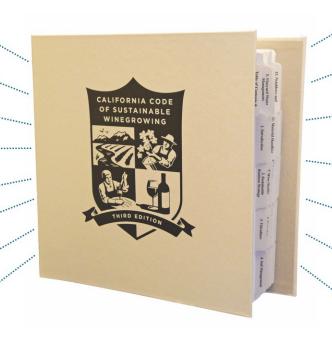
Vineyard Water Management

Pest Management

Wine Quality

Ecosystem Management

**Energy Efficiency** 



Winery Water Conservation & Quality

**Material Handling** 

Solid Waste Management

Environmentally Preferable Purchasing

**Human Resources** 

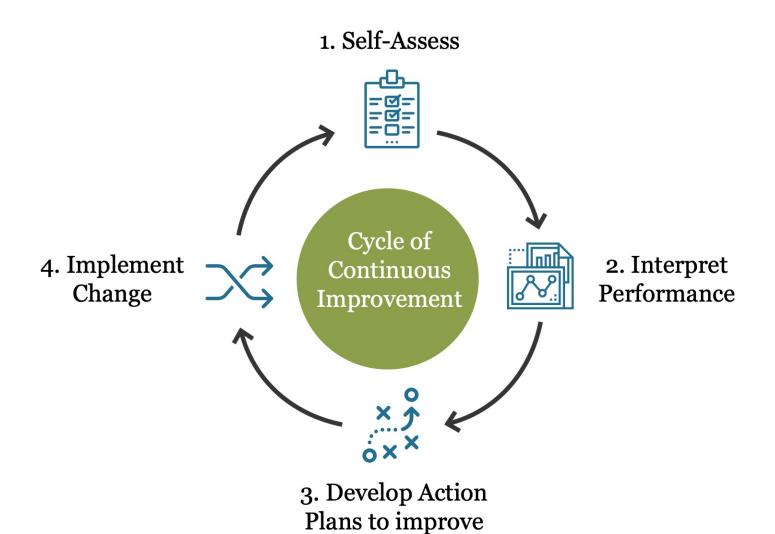
Neighbors and Community

Air Quality



## CYCLE OF CONTINUOUS IMPROVEMENT





## **CERTIFIED SUSTAINABLE Requirements**









Annual independent verification that a vineyard and/or winery:

- ✓ Adopts sustainable practices (Code)
- ✓ Meets certification requirements:
  - Prerequisite (required) practices
  - Minimum score threshold
  - Performance metrics (measure and track Water, Energy, GHG, applied N)
  - Restrictions on crop protection materials
- ✓ Develops annual action plans
- ✓ Improves year after year





For a list of CERTIFIED SUSTAINABLE Participants, visit <a href="http://www.sustainablewinegrowing.org/certifiedparticipants.php">http://www.sustainablewinegrowing.org/certifiedparticipants.php</a>

#### In July 2019:

155,126 winegrape acres in 1,477 CERTIFIED SUSTAINABLE VINEYARDS

25% of California's total acres

255.8 M cases produced by 148 CERTIFIED SUSTAINABLE WINERIES

❖ 85% of wine cases produced in California

Another 15% of California vineyard acreage is certified to other programs in the state:









## CERTIFIED WINE



### SUSTAINABILITY FROM GRAPES TO GLASS

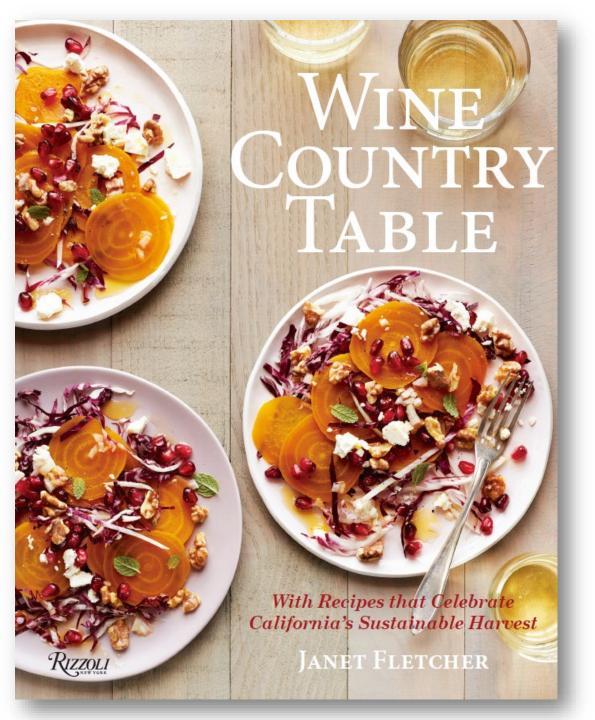
- Wine is made in a certified winery
- 85% (or more) of grapes from certified vineyards, 100% of grapes from California





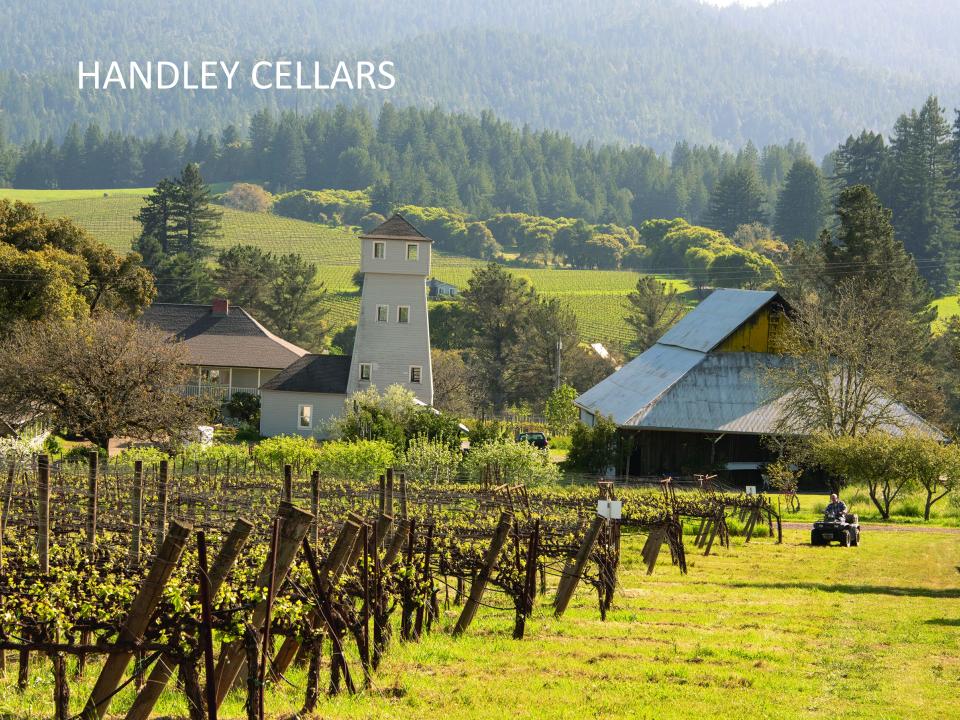


To date, Wine Label Notification Forms received for nearly 1,000,000 cases of California wine for the 2017 & 2018 vintages!



## **TODAY'S WINES**

- Handley Cellars | 2016
   Brut Rose Estate
   Vineyard
- Tablas Creek | 2017
   Cotes de Tablas Blanc
- Cambria Estate Winery |
   2017 Katherine's
   Vineyard Chardonnay
- Chamisal Vineyards |
   2017 Soberanes
   Vineyard Pinot Noir
- 5. Ridge Vineyards | 2017 East Bench Zinfandel
- 6. Turley Wine Cellars | 2016 Turley Estate Cabernet Sauvignon



## HANDLEY CELLARS | 2016 BRUT ROSE ESTATE VINEYARD

**Tech Notes:** Pinot Noir (70%) and Chardonnay (30%); Cases produced 505; Residual Sugar 2.9g/L, pH 3.2, TA 7.2 g/L, alcohol 12.5%

**Retail:** \$52







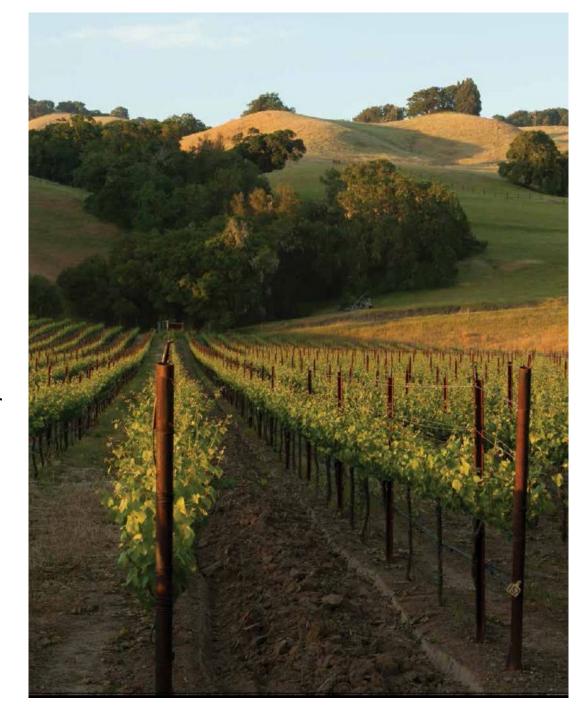
## **HANDLEY CELLARS**

Region: Mendocino

**Certifications:** USDA Organic **Key Sustainability Practices:** 

- Vineyard: organically farmed; cover crops; grazing by Baby-doll sheep for weed control and fertilization
- Winery: Raise funds for local health clinics, an elder home and other community causes; employees work "on the clock" for community causes

"Animals can help regenerate the soil." – Lulu McClellen





## TABLAS CREEK | 2017 COTES DE TABLAS BLANC

**Tech Notes:** 44% Viognier, 24% Marsanne, 20% Grenache Blanc, 12% Roussanne; 13% Alcohol; 1800 Cases Produced; grapes from CCOF Organic Certified estate vineyard; whole cluster pressed, and fermented in stainless steel; only native yeasts were used after fermentation; wines were racked and blended, and bottled in June 2018, with only a light cold stabilization before bottling.

**Retail:** \$24-30









## TABLAS CREEK VINEYARD



**Region:** Paso Robles

**Certifications:** USDA Organic **Key Sustainability Practices:** 

- Vineyard: organically and dry- farmed; chickens and Gloucestershire Old Spots pigs, sheep and guardian llamas; fruit trees and vegetable gardens lure birds and beneficials; and provide shade and food for employees
- Winery: Solar; steam cleaning barrels; winery wastewater to wetlands for habitat; lightweight glass

"Dry-farmed vines...tolerate drought more easily and yield more elegant and complex wines." – Neil Collins, Winemaker



### CAMBRIA ESTATE WINERY | 2017 KATHERINE'S VINEYARD CHARDONNAY

**Tech Notes:** 100% Chardonnay; 13.2% Alcohol; 50,000 Cases Produced; grapes from Certified California Sustainable and SIP-Certified vineyards; 15-20% fermented in Stainless Steel and rest in 6-months barrel aging in 100% French oak barrel, 15% new.

Retail: \$22





## CAMBRIA ESTATE WINERY









**Region:** Santa Barbara

**Certifications:** Organic, Certified California Sustainable Winegrowing and SIP-Certified **Key Sustainability Practices:** 

- Vineyard: Beneficial insects, pheromone traps and owl boxes to control vineyard pests; employees valued and thanked, with average tenure approaching 20 years.
- Winery: Winery water use reduced by 50%; Stewards of the Land established by Julia and Katie to offer grants to female changemakers; employees given two paid days to volunteer; solar on roof contributes ± 65% of power; retrofitted tanks with new jackets to reduce energy use along with additional new tanks.

"Employees feel good about what the company is doing." – Denise Shurtleff, General Manager



## Sustainably produced wine has the highest future purchase consideration

#### Alternative wine styles: **Consideration** by generation

% who would consider buying the following alternative wine styles in the future Base = All aware of the following alternative wine styles

			Generations			
		All US regular wine drinkers	Gen Z + Millennials (21-39)	<b>Gen X</b> (40-54)	<b>Boomers +</b> (55 +)	
1	Sustainably produced wine	74%	73%	77%	75%	
1	Environmentally friendly wine	74%	74%	75%	73%	
1	Fairtrade wine	74%	76%	77%	70%	
4	Organic wine	70%	74%	76%	62%	
4	Preservative free wine	70%	67%	75%	71%	
4	Sulphite free wine	70%	70%	70%	70%	
4	Orange / skin contact wine	70%	69%	78%	57%	
8	Wine from a carbon neutral winery	68%	68%	68%	69%	
9	Biodynamic wine	58%	59%	60%	53%	
9	Vegetarian wine	58%	60%	66%	36%	
11	Vegan wine	55%	61%	53%	39%	

Small sample size (n<50)

Red / Blue: Statistically significantly higher / lower than all US regular wine drinkers at a 95% confidence le

Top 3 in each segment (exc. small sample size)

#### Sources:

- Wine Intelligence, consumer focus groups in LA, April 2019, n=3 groups
- Wine Intelligence, Vinitrac© US, April 2019, n=2,000 US regular wine drinkers



## Sustainably produced wine has the highest future purchase consideration in US, CAN, UK

#### Alternative wine styles: **Consideration** by country

% who would consider buying the following alternative wine styles in the future Base = All aware of the following alternative wine styles

		Countries			
		US	Canada	Sweden	UK
1	Sustainably produced wine	74%	70%	60%	63%
2	Environmentally friendly wine	74%	61%	57%	55%
3	Fairtrade wine	74%	60%	55%	63%
4	Organic wine	70%	57%	68%	49%
5	Preservative free wine	70%	57%	52%	56%
6	Sulphite free wine	70%	58%	44%	49%
7	Orange / skin contact wine	70%	49%	30%	44%
8	Wine from a carbon neutral winery	68%	57%	54%	66%
9	Biodynamic wine	58%	52%	40%	43%
10	Vegetarian wine	58%	41%	28%	32%
11	Vegan wine	55%	38%	34%	34%
	None of these	16%	27%	15%	33%

Small sample size (n<50)

Red / Blue: Statistically significantly higher / lower than all US Togo Birneach segment (excessional) sample size)

#### Sources:

• Wine Intelli

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- Wine Intelligence, consumer focus groups in LA, April 2019, n=3 groups
- Wine Intelligence, Vinitrac© US (n=2,000) Canada (n=2,479), Sweden (n=1,000) and UK (n=1,000), April 2019, US, Canadian, Swedish and UK regular wine drinkers

## Consumers are often willing to pay more

"I'd pay a couple of dollars more for a sustainable wine, as long as it tasted good Age 21-35

#### Willingness to pay more for sustainably produced wine

% who would pay the following extra amount for a sustainably produced wine

Base = All US regular wine drinkers (n=2,000)	All US regular wine drinkers	Generations			
		<b>Gen Z</b> (21-24)	Millennials (25-39)	<b>Gen X</b> (40-54)	<b>Boomers +</b> (55 +)
sample size =	2,000	154	601	470	775
I would not be willing to pay more	26%	14%	11%	22%	43%
Up to \$1 more	10%	8%	7%	10%	13%
\$1.00 to \$1.99 more	14%	20%	13%	13%	14%
\$2.00 to \$2.99 more	18%	25%	20%	19%	14%
\$3.00 to \$3.99 more	11%	13%	17%	10%	7%
\$4.00 to \$4.99 more	<b>7</b> %	5%	11%	8%	3%
\$5 or more	14%	14%	20%	16%	8%
Average extra value	\$3.0	\$2.9	\$3.3	\$3.1	\$2.5

Red / Blue: Statistically significantly higher / lower than all US regular wine drinkers at a 95% confidence level

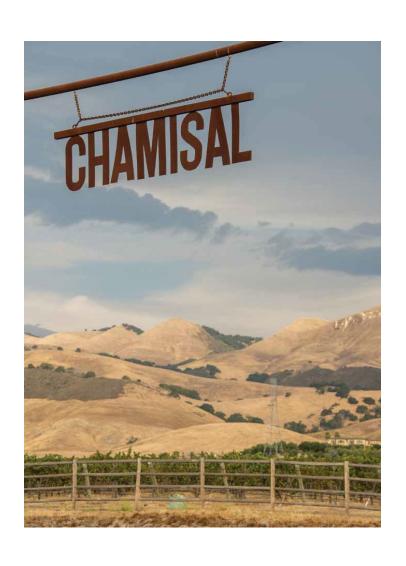
#### Sources:

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- Wine Intelligence, Vinitrac© US, April 2019, n=2,000 US regular wine drinkers





## CHAMISAL VINEYARDS | 2017 SOBERANES VINEYARD PINOT NOIR



**Tech Notes:** 100% Pinot Noir; Night harvested and hand-sorted and destemmed into small open-top fermenters. Fermentation achieved using native yeast with low fermentation temperatures giving soft phenolics and fresh aromatics. After total fermentation time of 12 days, the wines were then racked to 40% new French oak barrels and aged for 16 months.

**Retail:** \$60

## CHAMISAL ESTATE WINERY

**Region:** San Luis Obispo

**Certifications:** SIP-Certified **Key Sustainability Practices:** 

- Vineyard: Organic waste is composted and composted and applied to boost soil microbes in vineyard; owl boxes strategically placed to eliminate up to 1000 rodents/season
- Winery: Rainwater capture on winery's roof rerouted to irrigation; process water treated in ponds and reused; tasting room paneled with salvaged barn planks; cork recycling

"It's time-consuming to farm multiple small blocks differently—with different rootstocks, vine densities, and irrigation plans—but there's a payoff in conservation and quality." - Wine Country Table, Chamisal Estate Winery profile



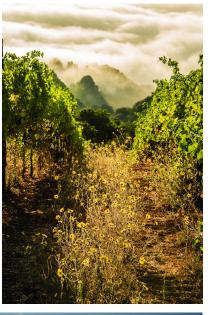






## RIDGE VINEYARDS | 2017 EAST BENCH ZINFANDEL







Tech Notes: 100% ZINFANDEL (organically grown); 14.7% ALCOHOL BY VOLUME; Natural primary and natural secondary (malolactic) fermentations; once daily pumpovers; pressed at eleven days; 100% air-dried American oak barrels (10% new oak, 25% one year, 25% two year, 20% three year, 20% four year); Twelve months in barrel

**Retail:** \$32

## RIDGE VINEYARDS

**Region:** Santa Cruz Mountains

**Certifications:** Certified Organic, Fish Friendly

Farming

### **Key Sustainability Practices:**

- Vineyard: Winter cover crops minimize erosion on this steep site and summer cover crops draw beneficials when most needed; compost grape stems and pomace; monitor vineyards at vine level; use raptor and bird boxes to help with insect and rodent control; provide housing for employees
- Winery: Bioreactor system recycles every drop of winery process water, while storm water that falls on hard surfaces is collected and channeled underground into the aquifer

"We're always fiddling, always trying to improve. In California, you'll fall behind if that's not your attitude." - David Gates, Viticulturalist

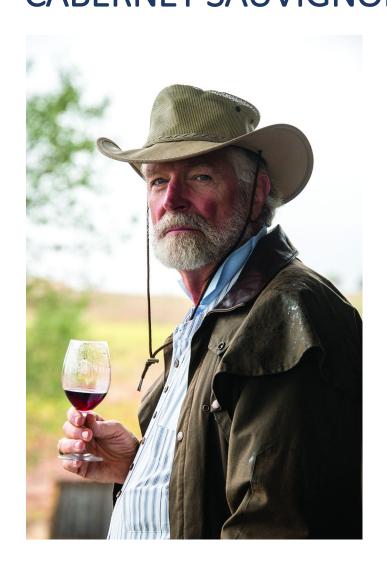








## TURLEY WINE CELLARS | 2016 TURLEY ESTATE CABERNET SAUVIGNON



**Tech Notes:** Vines are 29 years old; 100% French oak, of which 40% is new; Only natural yeasts are used in fermentation; 18 months in barrel

**Retail:** \$50-\$60

## TURLEY WINE CELLARS

**Region:** Santa Cruz Mountains **Certifications:** USDA Organic **Key Sustainability Practices:** 

- Vineyard: Cover crops replenish soil; worm castings and compost tea; dry-farming; headpruned vines with evenly spaced arms admit sun and wind from every direction and canopy helps with mildew control
- Winery: Solar panels; canopy over sorting table to create worker comfort; stack barrels higher to save energy; core values: having fun, generosity and continued education (e.g., covering state-college tuition for employees' children)

"If you're going to cool and humidify a room...you lose a lot less energy when there's critical mass."

- Larry Turley

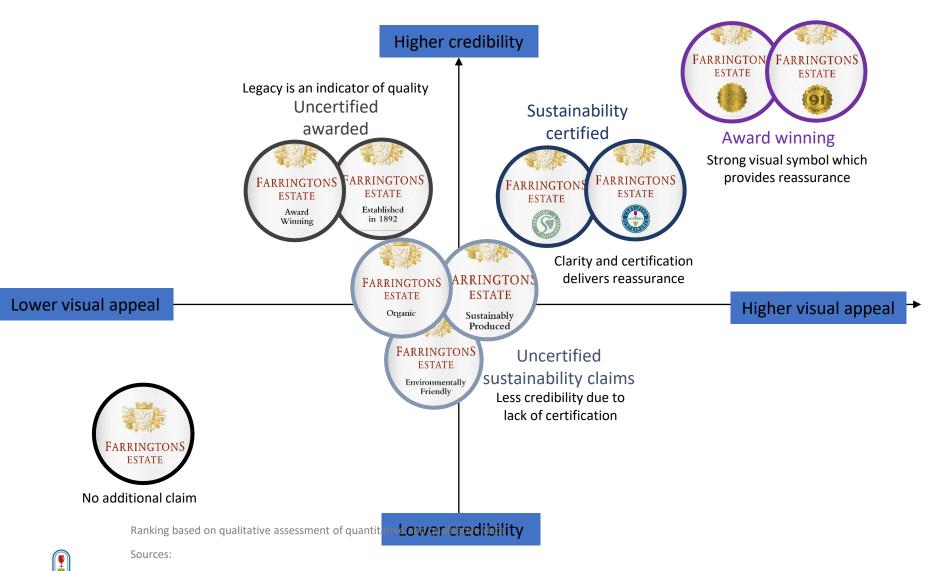
# CONSUMER PERCEPTIONS OF CERTIFICATION







### Most reassurance: award winning endorsements followed by certifications



• Wine Intelligence, consumer focus groups in LA, April 2019, n=3 groups

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Wine Intelligence, Vinitrac© US, April 2019, n=2,000 US regular wine drinkers

## Certified Sustainable logos yielded highest "likelihood to buy" in U.S.

#### Sustainability labeling cues - likelihood to buy - Averages

Labeling cues are shown on a scale of 1 = 'very unlikely' to 5 = 'very likely' ranked on their average likelihood to buy Base = All US regular wine drinkers (n=2,000)

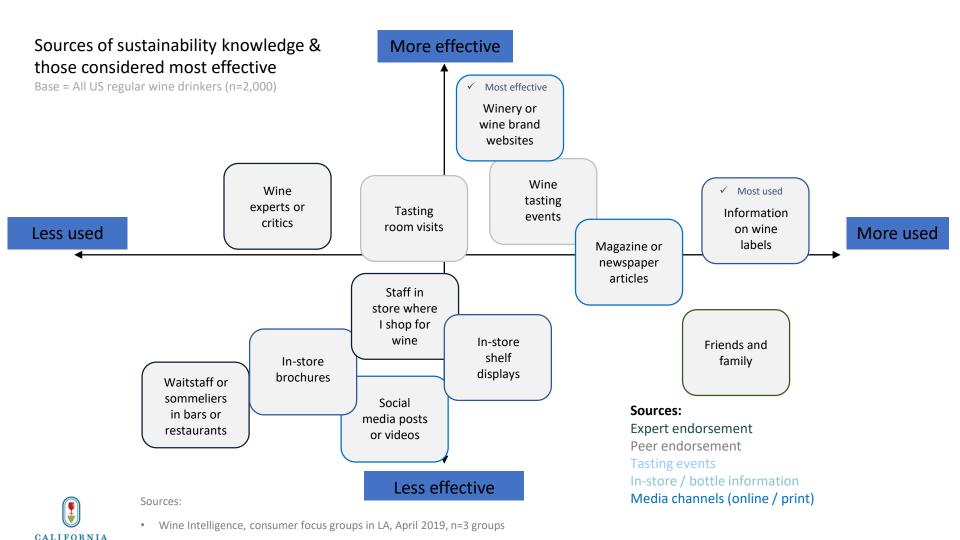




#### Sources:

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- Wine Intelligence, Vinitrac© US, April 2019, n=2,000 US regular wine drinkers

## Winery websites & tastings are more effective at communicating sustainability; wine labels & peer recommendation are more frequently used



• Wine Intelligence, Vinitrac© US, April 2019, n=2,000 US regular wine drinkers

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## JACKSON FAMILY WINES EXAMPLES





SUSTAINABLE



Grand Reserve Chardonnay captures our Santa Barbara County estate vineyand's cool coastal climate with a wind expension of lime, Meyer lemon, tropical fruit and pintapple flavors, and warm vanills spice from French oak burrel aging.

We firm the land with long-term stewardship in miral. To laten more about our unitainable practices and the 100% renewable energy we employ to make our wints, that us at kinom.

VINTED & BOTTLED BY KENDALL-JACKSON VINEYARDS & WINERY, SANTA ROSA, CALIFORNIA I 1 800 769 3649

CONTAINS SILETTES TSOMM, ALC THIS'N BY YOU, GOVERNMENT MARKING; (1) ACCORDING TO THE SURECON GENERAL, WOMEN SHOULD NOT DRINK ALCOHOLIC BEVERAGES BURING PRECIMANT. BECAUSE OF THE RICK OF BIRTH DETECTS. CZ COMBINATION OF ALCOHOLIC BEVERAGES IMPAIR YOUR ABUILTY TO DRINK A CAR OR OFFRIE MACHINERY AND MAY CAUSE FEATTH PROBLEMS.







## Sustainability Certifications

- All our vineyards and wineries certified under one of three sustainability programs
  - California CERTIFIED SUSTAINABLE
  - Sustainability in Practice (SIP)
  - Oregon Low Input Viticulture & Enology (LIVE)
- Third-party certification supports best management practices for sustainability performance

## 2020 Sustainability Goals & Progress

(metric-based goals only - from 2008 baseline)



<u>Category</u>	<u>2020 Goal</u>	2018 Progress	
GHG intensity	25% reduction	33% reduction	
Water intensity	33% reduction	36% reduction	
Electricity offset from onsite renewables	50% offset	32% offset	
Employee volunteering	75% participation	79% participation	
Sustainable grower fruit	85% certified	80% certified	
Zero Waste wineries & tasting rooms	90%+ diversion	98% diversion (wineries)	



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