Welcome to the California Sustainable Winegrowing Alliance’s (CSWA’s) 2018 CERTIFIED SUSTAINABLE Report. This report is an annual benchmark of major accomplishments of Certified California Sustainable Winegrowing (CERTIFIED SUSTAINABLE) and certified vineyards and wineries. In 2018, wines bearing the new CERTIFIED SUSTAINABLE wine logo – first available for the 2017 vintage – hit the marketplace!

**BENEFITS OF CERTIFIED SUSTAINABLE:**

**Good for the Environment**
Sustainable winegrowing conserves natural resources, improves air and water quality, and protects ecosystems and wildlife habitat.

**Good for the Community**
Sustainable winegrowing promotes stewardship of natural and human resources, with growers and vintners contributing to their communities both economically and culturally.

**Good for the Grapes & Wine**
Sustainable winegrowing requires in-depth attention to detail and continuous improvement resulting in high quality winegrapes and wine.

**SUSTAINABILITY TOPICS COVERED:**

- Environmental Stewardship
- Strong Relationships with Employees, Neighbors and Communities
- Water Conservation
- Energy Efficiency
- Healthy Soils
- Responsible Pest Management
- Wildlife Habitat Protection
- Solid Waste Management
- Air Quality
- Environmentally Preferable Purchasing
- High Quality Grapes and Wine
- Vibrant Businesses
1,398 VINEYARDS CERTIFIED
143 WINERIES CERTIFIED

GROWING RAPIDLY

↑ 44% INCREASE IN THE NUMBER OF CERTIFIED SUSTAINABLE VINEYARDS IN 2018

↑ 13% INCREASE IN THE NUMBER OF CERTIFIED SUSTAINABLE WINERIES IN 2018

149,922 ACRES
25% OF THE 599,000 TOTAL CALIFORNIA WINEGRAPE ACRES ARE CERTIFIED SUSTAINABLE

209M CASES
70% OF THE 301M WINE CASES PRODUCED IN CALIFORNIA ARE MADE IN CERTIFIED SUSTAINABLE WINERIES

627,831 CASES AND COUNTING
USING THE NEW LOGO ON THE WINE LABEL

Wine bearing the CERTIFIED SUSTAINABLE logo or claims must be made in a certified winery, using at least 85% grapes from certified vineyards (including CERTIFIED SUSTAINABLE, LODI RULES, or SIP Certified®) and 100% from California. The winery must also complete a chain of custody audit.
2018 data demonstrates 1,398 CERTIFIED SUSTAINABLE vineyards’ adoption of sustainable practices, with many going beyond minimum certification requirements. On average, certified vineyards made score improvements in 84 of the 140 (60%) California Code of Sustainable Winegrowing criteria since 2017.

"ARMED WITH FIRSTHAND KNOWLEDGE, I CAN SAY CERTIFIED SUSTAINABLE REPRESENTS THE BEST EFFORTS OF MANY CARING, SMART LEADERS IN THE WINE INDUSTRY TO HONESTLY IDENTIFY AND ESTABLISH CERTIFICATION STANDARDS THAT ARE BOTH TANGIBLE AND WORTHWHILE."
—EMILIO MIRANDA, VITICULTURIST, ALLIED GRAPEGROWERS

VINEYARDS

WATER EFFICIENCY

100%
developed comprehensive water management plans to optimize water use efficiency.

98%
measured their water use using flow meters or other methods such as calculation based on duration.

92%
used drip irrigation systems to deliver the optimum amount of water to each vine.

PEST MANAGEMENT

100%
monitored for pests as part of an Integrated Pest Management (IPM) program to prevent and manage pests responsibly.

100%
explored low risk alternatives if applying crop protection materials and established buffer zones to protect sensitive areas.

88%
used cultural practices, such as cover crops and leaf removal, to naturally manage pests and reduce the need for crop protection materials.

HEALTHY SOILS

100%
allowed vegetation to grow in the vineyard, used cover crops and/or composted to improve soil health and structure.

96%
used plant tissue analysis results to help make nutrient application decisions.

69%
reduced or eliminated tillage to lower the rate of organic matter breakdown and improve soil structure.

ENERGY EFFICIENCY

94%
conducted an energy audit of the vineyard irrigation pump within the last five years.

88%
reduced energy use through water pump improvements, which targeted the largest energy saving opportunity in the vineyard.

58%
tracked fuel use and utilized practices and technologies to increase fuel efficiency.
### STEWARDSHIP

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<tr>
<th>Percentage</th>
<th>Description</th>
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<tr>
<td>97%</td>
<td>of certified vineyards created or maintained nesting habitat such as bird boxes or natural perches.</td>
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<tr>
<td>97%</td>
<td>of certified vineyards used practices such as cover crops to minimize or eliminate rainfall runoff, and added drainage systems on slopes if needed.</td>
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<tr>
<td>90%</td>
<td>of certified vineyards preserved or created vegetative buffer strips on banks of watercourses to protect water quality.</td>
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<tr>
<td>100%</td>
<td>of certified vineyards created or maintained nest habitat such as bird boxes or natural perches.</td>
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<tr>
<td>82%</td>
<td>of certified vineyards understood how vineyard operations may have affected neighbors and community members.</td>
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### EMPLOYEES

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<td>93%</td>
<td>of certified wineries and 75% of certified vineyards encouraged employees to attend educational events to enhance their skills.</td>
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<td>89%</td>
<td>of certified vineyards and 75% of certified vineyards conducted safety audits and employee and safety training meetings at least quarterly.</td>
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<td>85%</td>
<td>of certified vineyards benchmarked compensation levels within the industry and/or by location to ensure competitiveness.</td>
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### NEIGHBORS

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<td>98%</td>
<td>of certified wineries and 75% of certified vineyards provided contact information to neighbors and responded to community concerns to create meaningful relationships.</td>
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<tr>
<td>95%</td>
<td>of certified vineyards volunteered or provided other contributions to enhance their local community.</td>
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<tr>
<td>84%</td>
<td>of certified vineeries and 75% of certified vineyards donated resources or volunteered to benefit the environment.</td>
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### CONTRIBUTIONS

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<td>90%</td>
<td>of certified vineyards preserved or created vegetative buffer strips on banks of watercourses to protect water quality.</td>
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<td>85%</td>
<td>of certified wineries and 75% of certified vineyards implemented a conservation strategy to reduce dust from roads to improve air quality.</td>
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<td>97%</td>
<td>of certified vineyards used practices such as cover crops to minimize or eliminate rainfall runoff, and added drainage systems on slopes if needed.</td>
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<td>82%</td>
<td>of certified vineyards and 78% of certified vineyards enhanced the arts and culture in their community through financial contributions or volunteering.</td>
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### “BEING CERTIFIED SUSTAINABLE HELPS US TO BE CONSTANTLY AWARE OF THE ENVIRONMENTAL AND ECONOMIC CONCERNS THAT ARE AN IMPORTANT PART OF PEOPLE’S LIVES AND HOW OUR INDUSTRY IMPACTS SOCIETY.”

—JON MCPHERSON, MASTER WINEMAKER, SOUTH COAST WINERY

### COMMUNITY
“CSWA HELPS PROVIDE A CREDIBLE FRAMEWORK ON WHICH GROWERS AND VINTNERS CAN COMMUNICATE THEIR COMMITMENT TO SUSTAINABILITY, CONTINUALLY IMPROVE THEIR PRACTICES, AND SET NEW BENCHMARKS FOR MEASURING FUTURE PROGRESS.”

—KAREN ROSS, SECRETARY, CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE

2018 data demonstrates 143 CERTIFIED SUSTAINABLE wineries’ adoption of sustainable practices, with many going beyond minimum certification requirements. On average, certified wineries made score improvements in 74 of the 104 (71%) California Code of Sustainable Winegrowing criteria since 2017.
CERTIFICATION REQUIREMENTS

Certified wineries and vineyards must meet the following requirements each year, verified during an annual third-party audit:

- Perform an annual self-assessment and meet prerequisite practices and an overall score threshold
- Implement an Integrated Pest Management (IPM) approach and comply with restrictions on crop protection materials
- Measure and record sustainability performance metrics
- Improve year after year

Learn more about program requirements and adoption of practices by visiting www.sustainablewinegrowing.org/certification2018data.

2018 DATA REVIEW

CERTIFIED SUSTAINABLE’s core tenet of continuous improvement was in full effect over the past year. Improvements were made in average scores for 60% of vineyard criteria and 71% of winery criteria in the California Code of Sustainable Winegrowing. For example, the data shows a 27% increase in energy audits of vineyard irrigation pump, and 8% more wineries conducting a solid waste audits. In the coming year, CSWA will host workshops, develop new educational materials and work with growers and vintners to drive adoption of sustainable practices, specifically in the areas of IPM, air quality, vineyard erosion control, and winery water management.

ABOUT CALIFORNIA SUSTAINABLE WINEGROWING ALLIANCE (CSWA)

CSWA is a nonprofit organization that promotes the benefits of sustainable winegrowing practices, enlists industry commitment, implements the Sustainable Winegrowing Program, and administers CERTIFIED SUSTAINABLE – a third-party certification program for California growers and vintners that adheres to international sustainability standards.