

*We're Green
Everyday*



Ramona Valley American Viticultural Area (AVA)

Ramona Ranch Winery

Ramona Ranch Vineyard & Winery
Certified Sustainable since 2016

Local Artisan Wine



RAMONARANCHWINES.COM



Handcrafted, artisan wines made the old-fashioned way at Ramona Ranch



Ramona has a Mediterranean climate with warm year round daytime temperatures and cool year round night temperatures. This includes high day to night changes in temperature, perfect for growing grapes and agritourism guests.

"Ramona Ranch Winery Dog, Ruby"



Four Types of Farming:

- Conventional – more traditional and considered “standard,” generally use synthetic and mechanical controls (i.e. chemicals & tractors); focus on the outputs.
- Organic – practices which involve ‘soft’ chemicals, and encourage biodiversity and natural ecosystems, focus on the inputs (non-GMO, no synthetic chemical applications – no fertilizers, pesticides, herbicides, instead rely on natural alternatives).
- Biodynamic – follow holistic biodiverse systems using indigenous materials; focus on the closed system from a spiritual and astrological perspective.
- Sustainable Winegrowing – monitoring and thresholding systems to improve outcomes in a mindful manner; focus on the treatment of the land, environment, community and more to minimize effect of winemaking on the environment. Balance of conservation, preservation, social responsibility and economic feasibility.

[Certified California Sustainable Vineyard and Winery \(CCSW\)](#): This certification was developed by the Wine Institute and the California Association of Winegrape Growers (CAWG). There are over one hundred criteria for the certification that fall into three main categories: environmental soundness, economic feasibility and social equality. For you to get certified, a third party must conduct an audit. They will check metrics in water and energy use, greenhouse gas emissions and nitrogen use



In simplest terms, organic winemakers are focused on a purer process — less exposure to chemicals. Sustainable winemakers place a priority on being environmentally friendly, socially responsible and economically sound. Biodynamic wine creators make organic wines using farming processes that align with the lunar calendar and involve specific soil treatments.*.

*Source: <https://www.marketviewliquor.com/blog/difference-organic-wines-sustainable-wines-biodynamic-wines/>

THE 3 E'S OF SUSTAINABILITY



Top 3 motivations to seek certification:

- | #1 CREDIBLY COMMUNICATE
- | #2 GET CREDIT FOR YOUR EFFORTS
- | #3 DRIVE CONTINUOUS IMPROVEMENT



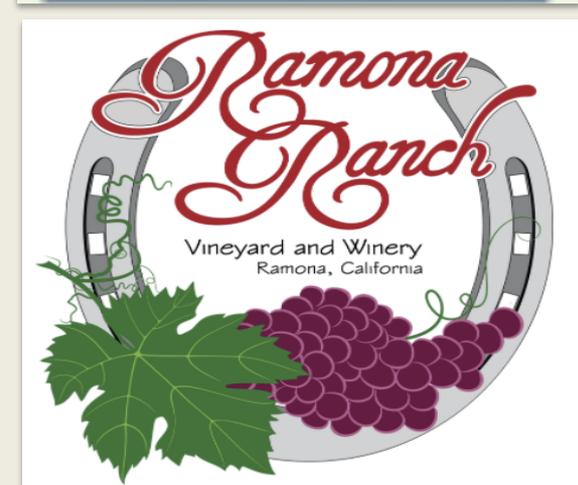
CSWA Mission

The long-term mission for the Sustainable Winegrowing Program includes:

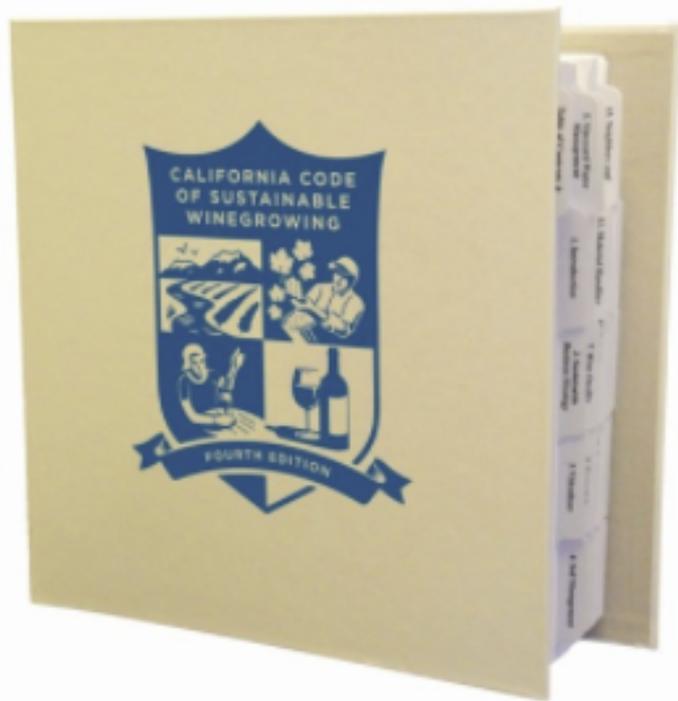
Establishing voluntary high standards of sustainable practices to be followed and maintained by the entire wine community

Enhancing winegrower-to-winegrower and vintner-to-vintner education on the importance of sustainable practices and how self-governing will enhance the economic viability and future of the wine community

Demonstrating how working closely with neighbors, communities and other stakeholders to maintain an open dialogue can address concerns, enhance mutual respect, and accelerate results



Code Workbook



Chapters Include:

- Sustainable Business Strategy
- Viticulture
- Soil Management
- Vineyard Water Management
- Pest Management
- Wine Quality
- Ecosystem Management
- Energy Efficiency
- Winery Water Conservation And Quality
- Material Handling
- Solid Waste Reduction And Management
- Sustainable Purchasing
- Human Resources
- Neighbors And Community
- Air Quality & Climate Protection

CERTIFIED CALIFORNIA SUSTAINABLE WINEGROWING

FROM GRAPES TO GLASS

Certified California Sustainable Winegrowing vineyards and wineries produce high quality grapes and wine, protect the environment and enhance the communities in which they live and work by implementing sustainable winegrowing practices that are environmentally sound, socially equitable and economically viable.

BEING A SUSTAINABLE WINEGROWER MEANS:



Producing high quality grapes & wines



Protecting the environment



Being a good neighbor & employer



Maintaining a thriving long-term business

KEY AREAS OF WIDELY ADOPTED SUSTAINABLE PRACTICES:



WATER EFFICIENCY



ENERGY EFFICIENCY



PEST MANAGEMENT



SOIL HEALTH



WASTE MANAGEMENT



WILDLIFE HABITAT



NEIGHBORS & COMMUNITY



EMPLOYEES



CONTRIBUTIONS



SUPPLY CHAIN

“California is the world’s fourth largest wine producer, amplifying the importance and impact of the industry’s high level of adoption of sustainable practices, as demonstrated by data included in the report,” said Allison Jordan, CSWA Executive Director. “These practices improve resource efficiency and wine quality, reduce risks and, in many cases, reduce costs, while contributing to a healthier environment, stronger communities and vibrant businesses.”



The California Sustainable Winegrowing Alliance (CSWA) is a 501(c)(3) nonprofit organization incorporated in 2003 by Wine Institute and the California Association of Winegrape Growers. CSWA’s mission is to encourage adoption of sustainable winegrowing practices and communicate the California wine industry’s global leadership through education, outreach, certification and partnerships.



Sustainability is Complex!



CERTIFIED PRACTICES

Integrated Pest Management

We limit crop protection to a bare minimum in our vineyards. We create and maintain owl habitat, raptor perches, and implement insectary zones to attract beneficial insects.

Biodiversity

We integrate the management of our vineyards with the ecosystem by introducing and preserving native plants, maintaining riparian habitats, and protecting sensitive species.

Air Quality Control

We plant native cover crops and limit vehicle use to reduce dust and greenhouse gases.

Water Management

We constantly monitor soil moisture and measure the vines' water needs. We use low volume drip irrigation to regulate water use.

Soil Health

Healthy living soils grow great wines. We add organic matter by planting cover crops and utilizing compost.

Renewable Energy Sources

Solar and wind energy systems provide power for vineyard and winery operation.



CERTIFIED
CALIFORNIA
SUSTAINABLE
VINEYARD & WINERY



Energy efficiency comes in all shapes and sizes in a vineyard.



**2021 Crop Year
Ramona Ranch
Vineyard
(Vineyard)**

Organization:
Ramona Ranch
Vineyard &
Winery
Enterprise:
Ramona Ranch
Vineyard &
Winery

9. Energy Efficiency
9-12. Renewable Sources of Power



Use of renewable sources of power is an important strategy for reducing the overall carbon footprint of a vineyard or winery.

- Wind Turbine
- Solar Panels
- Back-up Batteries

Current Score: Category 4

The source(s) for electricity supplied to the vineyard and/or winery was known*

And

One third-party provided renewable power source for the vineyard and/or winery was selected

And/Or

A renewable energy system, such as wind, solar photovoltaic, passive solar thermal, methane digesters, biodiesel, fuel cells, geothermal, green power or other form of renewable energy was implemented.



CERTIFICATION REQUIREMENTS:

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

- Complete an **annual self-assessment** of 144 vineyard and 105 winery best practices using the California Code of Sustainable Winegrowing.
- Meet 60 vineyard and 41 winery **prerequisite practices** and exceed an **overall score threshold** of 85% of scores being Category 2 or higher on a 1-4 scale. (For the complete list of prerequisite practices and program requirements see: sustainablewinegrowing.org/certification-resources/.)
- Implement an **Integrated Pest Management** approach and comply with **restrictions on crop protection materials** as required by CSWA's Red and Yellow Lists. Materials on the Red List may not be used by Year Two; and while materials on the Yellow List may be used, alternatives must first be tried or considered, and justification and mitigation of risk documented.
- Measure and record **sustainability performance metrics** including water, energy, and GHGs for wineries, and water and applied nitrogen for vineyards.
- Prioritize, develop and implement action plans to **continuously improve**.

Wine bearing the certification logo or claims must be made in a certified winery, using at least 85% grapes from certified vineyards and 100% from California. The winery must also complete a chain of custody audit.





<p>2021 Crop Year Ramona Ranch Vineyard (Vineyard) Organization: Ramona Ranch Vineyard & Winery Enterprise: Ramona Ranch Vineyard & Winery</p>	<p>5. Vineyard Water Management 5-10. Soil Moisture and Plant Water Status Monitoring Methods</p>   <p>Optimizing irrigation reduces need for pumping and the associated GHG emissions.</p>	<p>Current Score: Category 3</p> <p>Plant water status was monitored by visually assessing shoot tips, leaves and tendrils* and using evapotranspiration (ET) to inform irrigation decisions**</p> <p>And/Or</p> <p>Soil moisture monitoring devices (e.g., gypsum blocks, tensiometers, capacitance sensors, neutron probe) were installed and used to track water availability (and/or depletion) and used to schedule irrigation for the vineyard</p> <p>And/Or</p> <p>A plant water status measurement tool was used (e.g., pressure chamber, porometer, leaf temperature, or other technology such as aerial monitoring).</p>	<p><i>Next Higher Score: Category 4</i></p> <p>Monitor plant water status by visually or mechanically assessing shoot tips, leaves and tendrils* and record results.</p> <p>And</p> <p>Install and use soil moisture monitoring devices (e.g., gypsum blocks, tensiometers, capacitance sensors, neutron probe) to track water availability (and/or depletion) and to schedule irrigation for the vineyard.</p> <p>And/Or</p> <p>Measure soil moisture and determine the start date for spring/summer irrigation.</p> <p>And/Or</p> <p>Use a plant water status measurement tool (e.g., pressure chamber, porometer, leaf temperature, or other technology).</p> <p>And</p> <p>Use weather station data or weather forecasts to schedule irrigation.</p>
<p><input checked="" type="checkbox"/> Climate Smart <input checked="" type="checkbox"/> Climate Smart Hotspot <input checked="" type="checkbox"/> High Impact</p>   			



<p>2021 Crop Year Ramona Ranch Vineyard (Vineyard) Organization: Ramona Ranch Vineyard & Winery Enterprise: Ramona Ranch Vineyard & Winery</p>	<p>4. Soil Management 4-13. Cover Crops</p>   <p>Cover crops build soil organic matter, increase carbon sequestration potential, and leguminous cover crops supply nitrogen and decrease need for synthetic fertilizers.</p>	<p>Current Score: Category 2</p> <p>An annual resident cover crop (non-seeded) was managed between vine rows during winter.</p>	<p><i>Next Higher Score: Category 3</i></p> <p>Manage a seeded annual cover crop between vine rows during winter</p> <p>And</p> <p>Base planted cover crop type on specific goals for vineyard (e.g., site vigor adjustments, erosion and runoff concerns, improve soil structure, enhance biodiversity, etc.)</p>
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Climate Smart
 Climate Smart Hotspot
 High Impact



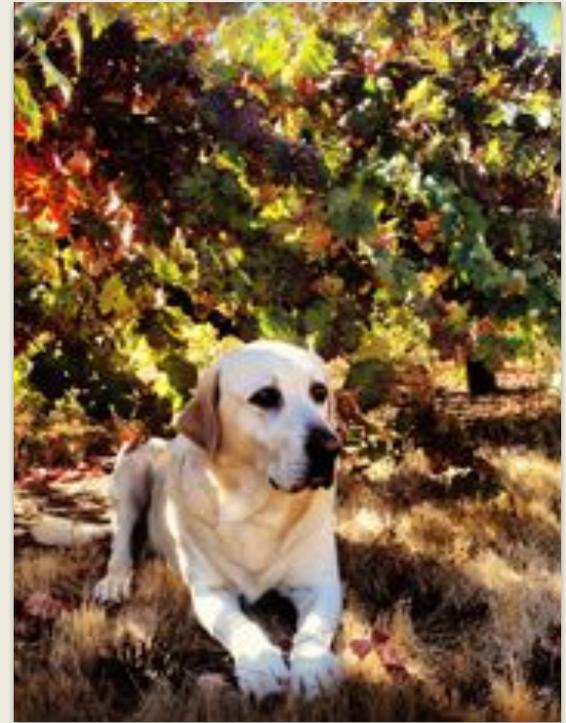




Wild Life Classes



Education



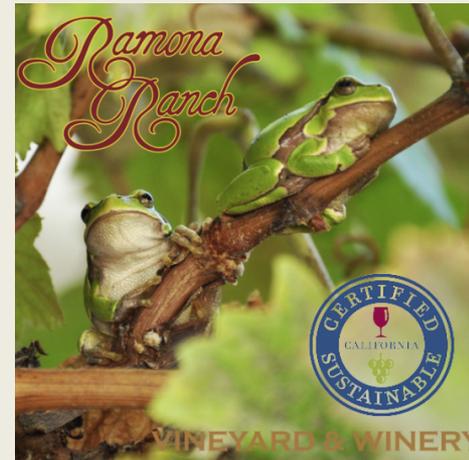
Hospitality



DOWN TO EARTH

Sustainable Winegrowing in California

The vision of the Sustainable Winegrowing Program is the long-term sustainability of the California wine community.



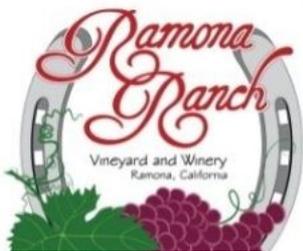
To place the concept of sustainability into the context of winegrowing, the program defines sustainable winegrowing as growing and winemaking practices that are sensitive to the environment (**E**nvironmentally Sound)

Responsive to the needs and interests of society-at-large
(Socially **E**quitable)

Economically feasible to implement and maintain (**E**conomically Feasible).

What is California Sustainable Winegrowing – a brief video





Wine Tasting

An Experience to Remember

Open Friday - Sunday

Come for a Visit & Taste the Difference

Local Artisan Wine



*Thank
you!
Teri &
Micole*

RAMONARANCHWINES.COM

RESOURCES

CSWA strives to provide the most pertinent and helpful information to California winegrape growers and vintners. A key part of CSWA's mission is to provide educational materials and resources that will enhance sustainable practices throughout the state. This section of our website aims to deliver important resources in a user friendly manner.

The Resource Library offers a platform for searching or browsing tools and publications on key sustainable winegrowing topics.

The CSWA Publications page includes educational guides and handouts for growers and vintners covering topics such as winery water management, biodiversity, and greenhouse gas emissions.

The Sustainability Reports page includes statewide reports from as far back as 2004 to benchmark the adoption of sustainable practices in California.

The Economic Tools page includes tools that allow growers and vintners to assess the costs and benefits of adopting specific sustainable practices.

The Newsletters page includes recent and past editions of the monthly Down to Earth Newsletter, profiling vineyards and wineries and highlighting industry best practices.

The Educational Videos page hosts a series of short videos highlighting best practices throughout the industry. Many of the videos available have been produced in partnership with PG&E and focus on energy conservation.

The Grower & Vintner Resources page links to web resources with the most relevant resources for each section listed under "Key Resources & Tools."

The Case Studies page provides practical examples of sustainable practices being implemented across the state.

<https://www.sustainablewinegrowing.org/>

Values - This program is guided by the following set of sustainability values:



- Produce the best quality winegrapes and wine possible
- Provide leadership in protecting the environment and conserving natural resources
- Maintain the long-term viability of agricultural lands
- Support the economic and social wellbeing of farm and winery employees
- Respect and communicate with neighbors and community members; respond to their concerns in a considerate manner
- Enhance local communities through job creation, supporting local business and actively working on important community
- Honor the California wine community's entrepreneurial spirit
- Support research and education as well as monitor and evaluate existing practices to expedite continual improvements

Recent reports shows that a vast majority of the state's vintners and growers are taking action to protect wildlife, positively contributing to their communities and encouraging employees to become engaged in enhancing sustainability.

Water Efficiency: 82% of growers used micro-irrigation systems to target irrigation, optimize water use and conservation.

Energy Efficiency: 90% of growers reduced energy use through water pump improvements, the largest energy saving opportunity in the vineyard.

Pest Management: 83% of growers used cultural practices to naturally manage pests, reducing need for pesticides.

Soil Health: 99% of growers used resident vegetation, cover crops and/or compost.

Employees: 89% of vintners encouraged employees to provide suggestions for improving operational efficiency to enhance sustainability.

Neighbors: 99% of growers provided neighbors with contact information and responded to community concerns.

Wildlife: 91% of growers allowed growth of resident or native vegetation to protect local water bodies and positively impact surrounding community.

Contribution: 94% of vintners volunteered or provided other contributions to enhance their local community.



Ramona Ranch is where agriculture and tourism meet to provide an amazing educational experience.