

Climate Smart Grapes

At Bosma Estate Winery, sustainability begins with clarity. By measuring the carbon footprint of our grapes we've established a solid baseline, the essential step for long term improvement and regeneration.

OUR COMMITMENT

Bosma Ag Estate Winery was founded from a love of good wine and a dedication to growing quality wine grapes in the Rattlesnake Hills AVA of Washington State. As estate growers, we manage our vineyards with care and precision, focusing on practices that support soil health, clean water, and long-term resilience.

Our commitment is rooted in stewardship, protecting the land today while ensuring our vineyards remain productive and vibrant for generations to come.



Water Stewardship

In an arid region, every drop counts. We irrigate efficiently and manage water responsibly to protect this vital resource.



Regenerative

Cover crops, compost, and minimal soil disturbance help build carbon-rich, resilient soils.



Precision Viticulture

Clonal selection and site-specific management help us grow expressive grapes with fewer inputs and fewer interventions.



Community

Working with neighboring wineries and local partners to share knowledge and strengthen the Yakima Valley wine community.



Responsible Inputs

Fewer synthetics, used smarter. Targeted, data-led applications support vineyard health and surrounding ecosystems.



Biodiversity

Pollinator habitat, wildlife corridors, and nesting sites help keep our vineyards and orchards in healthy balance.





BOSMA'S WINE GRAPES CARBON FOOTPRINT

In partnership with BX, Bosma Estate Winery conducted a Product Carbon Footprint (PCF) study for its wine grape production across three years.

Aligned with the internationally recognised ISO 14067 standard, the study identified and quantified greenhouse gas emissions from input production through on-farm activities to harvest.

FOOTPRINT RESULTS

Bosma Estate Winery's carbon baseline is **0.08 kg CO₂e per lb of wine grapes**.

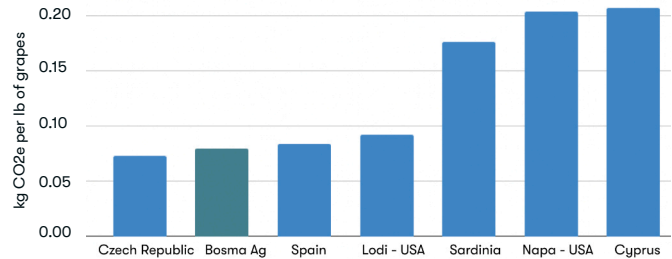
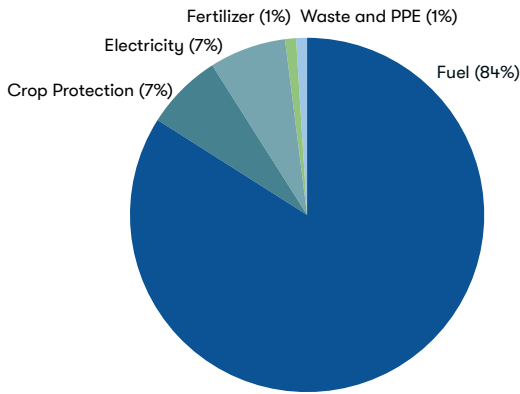


Fig. 1 Category level emissions as a proportion of the grape footprint

Fig. 2 Wine grapes shown against comparative global carbon footprint studies



Figures show that Bosma Estate Winery is outperforming published emissions benchmarks performs, a solid position for improvement and innovation.

INDUSTRY LEADERSHIP

By measuring the carbon footprint of its grapes, Bosma Estate Winery is setting a new standard for vineyard transparency in Washington State. This first step - focused, data-driven, and honest - demonstrates leadership in a sector where credible climate action starts in the field.



VIEW FULL STUDY

