



# Colorado State University

## CSU Enology Program



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### **Suggested Critical Quality Assurance Points**

- 1) Determining winery growth schedule
- 2) Determining concurrent vineyard and winery growth schedules
- 3) Analyzing past year and rolling average wine sales trends
- 4) Setting production goals at winery by wine type
- 5) Setting vineyard production goals by grape variety
- 6) Setting growing, disease control, and harvesting parameters in vineyard
- 7) Testing and tasting grapes at time of picking decision
- 8) Weighing, testing, and tasting grapes at delivery
- 9) Testing and tasting grapes at crushing (and pressing for whites), both before and after adjustment, prior to fermentation
- 10) Testing yeast count and purity before pitching
- 11) Plotting fermentation progress with hydrometer and refractometer
- 12) Testing and tasting for pressing (of reds)
- 13) Testing and tasting wine when racked off lees into tanks or barrels
- 14) Testing and tasting when any addition to wine or transfer is performed, including filtration and fining trials
- 15) Blending trial testing and tasting
- 16) Tasting and testing wine after blending
- 17) Testing and tasting wine after fining and/or filtration
- 18) Testing and tasting after cold break and before bottling
- 19) MO testing of wine, bottling line, bottles: before bottling
- 20) Checking bottle fills and cork placement during bottling
- 21) Marking cases with name, date, lot, and case number
- 22) Testing and tasting for quality after bottling and before release
- 23) Testing for BATF requirements
- 24) Checking sensory attributes of opened bottles before customer tasting
- 25) Annual or semi-annual tasting panel of aging wines
- 26) Year-end winery/grower assessment and planning sessions

## **Suggested Routine Quality Assurance**

- 1) Testing and tasting grapes prior to picking decision, and periodic tasting of wine at every stage of production
- 2) Inventory when bought, arrive, made, moved, leave, sold, opened, used, including dating lab chemicals when arrive or solution made, and including dates on tasting bottles when opened
- 3) Listen to and have regular planning and performance sessions with personnel
- 4) Prompt and standard entry of data for tests and maintenance performed into records
- 5) Making fresh sanitation solutions
- 6) Periodic cleaning and sanitation of valve, hose, pump, line, handling and lab equipment
- 7) Cleaning and sanitation of valve, hose, pump, line, handling and lab equipment before and after use
- 8) Periodic surface area cleaning and sanitation
- 9) Tank and barrel cleaning and sanitation
- 10) Tasting glasses cleaning and sanitation
- 11) Periodically taste tanks and barrels
- 12) Regularly taste customer tasting bottles
- 13) Check labels on bottles before selling
- 14) Bathroom cleaning and sanitation
- 15) Lab cleaning and sanitation
- 16) Fruit fly and pest monitoring
- 17) Checking cellar temperature and humidity
- 18) Checking bottle storage temperature
- 19) Checking and cleaning of fermentation locks
- 20) Checking seals of variable lids, tank valves, tank covers
- 21) Inert gas topping of tanks
- 22) SO<sub>2</sub> testing and addition to tanks
- 23) Bung checking and topping of barrels
- 24) Periodic MO testing
- 25) Scheduled maintenance, repair and replacement, of equipment