

# PELTIER



WINERY & VINEYARDS

2021 Teroldego

TOPIC	Winemaking Protocols
Contact Information	Winemaker: <b>Susana Rodriguez Vasquez</b> Cell 209-400-3076 Fax. E-mail. susy@peltierwinery.com
Wine Style	Fruit forward, good color extraction, full body, good structure with balanced tannin.
Tons	235
Ideal Harvest targets	Look for flavor development, brown seeds, low vegetal character. 24.5 – 25.5 Brix; pH = 3.5 – 3.7 g/L; TA = 5.0 - 6.5 g/L
Crush & Destem	Set Crusher to moderately crush fruit so that berries are not mashed but skins are cracked open, and pulp is exposed.
KMBS additions to Grapes at Crusher	KMBS added in the field if not add 30 ppm at the crush pad
Additions at Crusher	<ul style="list-style-type: none"> <li>o <b>2 ml/ton Endozone ICS Rouge</b> at Crusher</li> <li>o <b>3.5# Oak Dust per truck</b> (1bag toasted &amp; 1 bag Untoasted)added to crusher. At least half of the dust should be <u>toasted (French or American)</u>, the other half should be <u>untoasted French oak(Best Oak Instant)</u> for veggie lots. If using a mix bag of oak dust add two bag to the crusher per truck.</li> <li>o <b>TTA addition of 1-2 Bags/truck at crusher</b> for gross acid adjustment if required.</li> </ul>
Additions at Tank	<ul style="list-style-type: none"> <li>o <b>1#/1000Gal Fermotan Liquid</b> at first pumpover</li> <li>o <b>1#/1000Gal Fermotan Rouge.</b></li> <li>o <b>1#/1000Gal Battonage Plus Texture.</b></li> <li>o Adjust Brix to 24.5 – 25.0 as necessary</li> <li>o <b>TA adjustment to pH of 3.6-3.8</b> if necessary. TA should be around 6-8 g/L.</li> </ul>
Soak	N/A
Yeast Inoculation	Only inoculate if temp is above 50F degrees. Warm if needed. Dry inoc: 1#/1000Gal <b>D254 and FX10</b> Culture Tank: Inoculate at 3-5% inoculum. <b>Strains: PDM</b> Yeast nutrients= 0.25#/1000 gal <b>Fermoplus Energy GLU</b>
Nutrients (Primary)	<b>1#/1000Gal Springcell</b> (Yeast Hulls) (=4 ppm YAN/#) Or <b>Fermoplus DAP Free 1#/1000Gal</b> <b>Adjust FAN to 250ppm</b> (ave. Brix) – <b>350ppm</b> (high Brix) <b>with DAP</b> (=25 ppm YAN/#)
Fermentation Temp	Ideal fermentation temperature no higher than 85F. <u>For non-jacketed 16k tanks:</u> If temp is above 85F, chill to 80F **Can ferment Teroldego a little cooler to retain more aromatics. However, if poor quality fruit, use the temperature guidelines above. ** It is very important not to cold soak the Yeast. If a tank gets out of the fermentation rate up to 90s, only have the tank temperature brought down by 10F at the time.
Pumpovers	Before inoculation: 1 Pumpover per day – Keep cool (55-60F) and <b>NO AIR!</b> After inoculation: 3 pumpovers per day with aeration w/venturi/splash tub down to 5 Brix. 16k tanks: 3 x 1hr per shift

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	At 5 brix: Reduce to 1 pumpover per shift and stop aerating. <b>No Air.</b> At dryness: Keep on pumpover 30 minutes per shift until pressed. <b>No Air.</b>
<b>Secondary Additions:</b> <b>Nutrients</b>	Add DAP or increase aeration as needed to address production of H <sub>2</sub> S.  Watch for stuck or sluggish fermentations. If fermentation is slowing down or moving unusually slow, add 35ppm <b>KMBS</b> to knock down microbial populations and circulate well. If Lactobacillus is present, <b>lysozyme</b> should be added prior to the <b>KMBS</b> addn. The tank should then be reinoculated with the <b>UV43</b> yeast strain (nutrients will have to be added again, be conscious of the brix and balance addition of nutrients with amount of sugar left to ferment).
<b>Tannins</b>	Add tannins in 25-50ppm increments during fermentation based on taste. Several additions may be needed. <b>Fermotan Liquid</b> builds aft-palate tannin/structure. <b>Tanenol Rouge</b> builds mid-palate tannin/structure. <b>FT Rouge</b> builds front-palate tannin/structure.
<b>Pressing</b>	<ul style="list-style-type: none"> <li>Press at <b>8-10 brix</b>. Combine Drain and Press except for special lots determined by winemaker for barrel program.</li> <li>Combine as many like-lots as possible at pressing.... blending by grade/style and by region to maintain quality or EUR requirement.</li> </ul>
<b>Post-Fermentation</b>	Monitor RS and Temp daily. Maintain temperature of 70-78F to facilitate the end of fermentation. When RS = 0.2 g/L or less, rack or centrifuge, and chill to 60-65F.
<b>MOX</b>	As needed. Wine should be centrifuged (preferable) or racked before MOX.  <b>Pre-ML set MOX to 30-60 mL/L/month</b> and maintain wine temp at ~60F. When aldehydes develop, lower MOX dose. Keep on MOX until wine tannins soften, vegginess is reduced, fruitiness is more pronounced, and reductive characters are gone. <b>TASTE DAILY</b>  <b>Post-ML set MOX to 0.5-2 mL/L/month</b> and maintain wine temp at ~60F. This MOX is often done on oak to help mimic the barrel aging process. Look for structure building, tannin integration/softening, decrease in 'green' characters. Stop when wine achieves balance or immediately if aldehydes form or VA starts to increase. <b>TASTE 2X PER WEEK</b>
<b>ML Fermentation</b>	Inoculate as needed. Best to inoculate one tank and once Malic has dropped by half, transfer portions of wine into several tanks to cross-inoc.  <b>ML inoculate with Enartis ML UNO</b>

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<b>Analysis</b>	<p><u>First Pumpover</u>: Brix, Ta, pH, MAD, NH3 or NOPA</p> <p><u>During Fermentation</u>: Brix and temperature, each shift.</p> <p><u>After Pressing</u>: Foss Analysis, temp</p> <p><u>MOX</u>: Foss analysis weekly for all levels of MOX Taste, Temp and DO analysis <b>daily</b> for High level MOX Taste (2x per week) Temp and DO analysis <b>weekly</b> for low level MOX</p> <p><u>Monthly Inventory</u>: Complete analysis. All wines should go onto monthly inventory as soon as wine has been racked or CF'd (even if it has not been produced)</p> <p><u>ML monitor</u> : FOSS analysis weekly until ML is complete</p>
<b>Reduction/ Metabisulfite</b>	<p>DO NOT ADD KMBS UNTIL MOX AND ML FERMENTATION ARE DONE. Tanks should be racked two or three times, or centrifuged after ML is complete. Typically, tanks are kept topped but mixed and aerated every week or two as follows:</p> <p>16K tanks: mix 1 hrs. aerate 30 min – 1 hrs. 12k tanks: mix 45 min, aerate 15 min – 30 min. 6k tanks: mix 30 min, aerate 10 min- 30 min.</p> <p>The wines have a tendency to get reductive for the first few months so aeration/racking is important and KMBS adds should be avoided until the wine is clean (preferably CF'd) and showing no signs of reduction. Aeration may still be necessary as late as March/April if wines begin to show signs of reduction</p> <p>In December/January start making KMBS adds to Teroldego. Keep Free SO2 at 20-25ppm through March/April at which time they can be adjusted to 25-30ppm.</p>