



Final C	Final Chemistry					
Cultivar	% Alcohol	рН	TA (g/L)			
Marquette	14.6	3.3	8.2			
Maréchal Foch	12.8	3.4	7.9			
Frontenac	13.4	3.3	10.3			
Merlot	12.4	3.4	7.2			

Juice Phenolics (AU)					
Cultivar	Total	Visible Color	Density	Hue	
Marquette	12.0	5.6	6.5	1.0	
Maréchal Foch	9.6	2.1	3.6	0.8	
Frontenac	22.6	15.6	21.2	0.3	
Merlot	1.5	0.8	1.5	0.8	
All cultivar data averaged over 4 years, 2004-2007					

## Sensory

- Ruby
  - o similar to V. vinifera
- Complex, well-balanced palate
  - o cherry
  - o black currant
  - o black pepper
  - o berry
  - o spice
- Moderate tannins
  - Comparable to Pinot noir

## **Maceration**

#### Nutrients

- Good N<sub>2</sub> concentrations; ammonia may be low
- Further research needed
- Fermentation: 7-10 days on skin
  - Optimal tannin extraction
  - Color rich but not inky; Vinifera-like
  - Extended maceration?

#### Fermentation temperature

- Moderate temps (70°F)
- High temperature may suppress fruity notes

# **Fermentation**

### Yeast

- Pasteur Red (Red Star)
- BM 45 (Lallemand)\*
  - Jammy fruit, cedar, earthy notes; enhanced body
- o RC212 (Lallemand)\*
  - Berry fruit, spice
- Strains tolerant of moderate to high alcohols

\* Nutrient addition recommended with these yeasts



# **Malolactic**

### Inoculation time

#### • Sequential

- Last third of AF, or a few days following
- Racking?
- Co-inoculation
  - Addition 1 day following fermentation
  - Quicker MLF, lower diacetyl
  - ICVD 254 + VP41, Vitalactic H+, Enoferm beta (Lallemand)



# Finishing

- Cold Stabilization
  - Highly recommended
- Chemical Deacidification
  - Usually, only minor additions needed
  - Final TA: 6.5-7.5 g/L



## lssues

- High alcohol

   Amelioration
  - Amelioration
- Seasonal variation
  - Tannins lower some seasons
  - Overcropping?
- Moderate acid
  - Potential pH/acid discrepancy



