

# Grape Cultivars and Sources

Dean S. Volenberg

Beginner Grape School

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# What Cultivar(s) to plant

- Depends on your answer to the following question
  - Are you going to just grow grapes or
  - Are you going to grow grapes and have a winery

# Do not chase new cultivars

- Everybody in the industry wants something new
- Instead look at the versatility of a cultivar
  - Chambourcin
    - Cropped 8 to 9 ton/acre and harvested early for Rosé
    - Cluster thinned to 3 to 4 ton/acre premium red
    - Cropped 8 to 9 ton/acre and hand harvest 3 to 4 ton early for Rosé and allow remaining crop to hang for premium red

# What is growing now in Missouri

Rank	Cultivar	Bearing
		Acres
1	Norton	351
2	Vignoles	262
4	Chambourcin	178
5	Vidal blanc	139
9	Chardonel	66
		996/acres

# Site selection should play a role in cultivar selection

- See page 94 of 2019-20 Midwest Fruit Pest Management Guide
- Winter cold temperatures
- Rootstocks

# What are the common grapes

- *Vitis vinifera* – European grape
- *Vitis labrusca* – Concord and Catawba
- *Vitis aestivalis* – Norton
- *Vitis riparia* – frost grape
- *Vitis vinifera* x *V. riparia* and complex hybrids, Hybrids, French American Hybrids

# Common rootstocks

- 3309 Couderc – *V. riparia* x *V. rupestris*
  - moderately vigorous very common in Missouri
- 101-14MGT – *V. riparia* x *V. rupestris*
  - moderately vigorous
- 1103 Paulsen – *V. rupestris* x *V. berlandieri*
  - Vigorous
  
- See page 40 Wine Grape Production Guide for Eastern North America



# Who is developing new cultivars

- Bruce Reisch – Cornell University
- Matthew Clark – University of Minnesota
- Andy Walker – UC Davis
- John Clark – University of Arkansas
- Chin-Feng Hwang – Missouri State University
- Tom Plocher – Hugo Minnesota



# Grapevines and propagation

- Grapevines are asexually propagated
  - Therefore every plant of cultivar is a clone – the exact genetic makeup
- Grapevines are one of the biggest reservoirs of viruses
- Grapevines propagated from a virus infected plant will also have the virus
- Protocol 2010

# Protocol 2010

- Foundation Plant Services and National Clean Plant Network
- Provide asexually propagated plant material that is pest free
- Protocol 2010 applied to both rootstock and scion production/own rooted
- Some nursery's are also adopting Protocol 2010

# Grapevine Sources

- Double A Vineyards <https://doubleavineyards.com/>
- Northeastern Vine Supply  
<https://www.nevinesupply.com/redwinevines.php>
- Foundation Plant Services  
<http://fps.ucdavis.edu/index.cfm>
- Clean Grapevine Program  
<https://ag.missouristate.edu/cleangrapevine/>



# Grape and Wine Institute

University of Missouri

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Misha Kwasniewski – Enology Research Leader  
Megan Hall – Viticulture Research Leader

Dean Volenberg  
University of Missouri Grape and Wine Institute  
214 Waters Hall  
Columbia, MO 65211

573-882-0476  
volenbergd@Missouri.edu















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