

Corteau Vineyards Terroir, Climate, Soils, Cultivars, Rootstocks, ...and Wine

Cain Hickey, Ph.D.
Viticulture Extension
Educator
Penn State University



PennState Extension

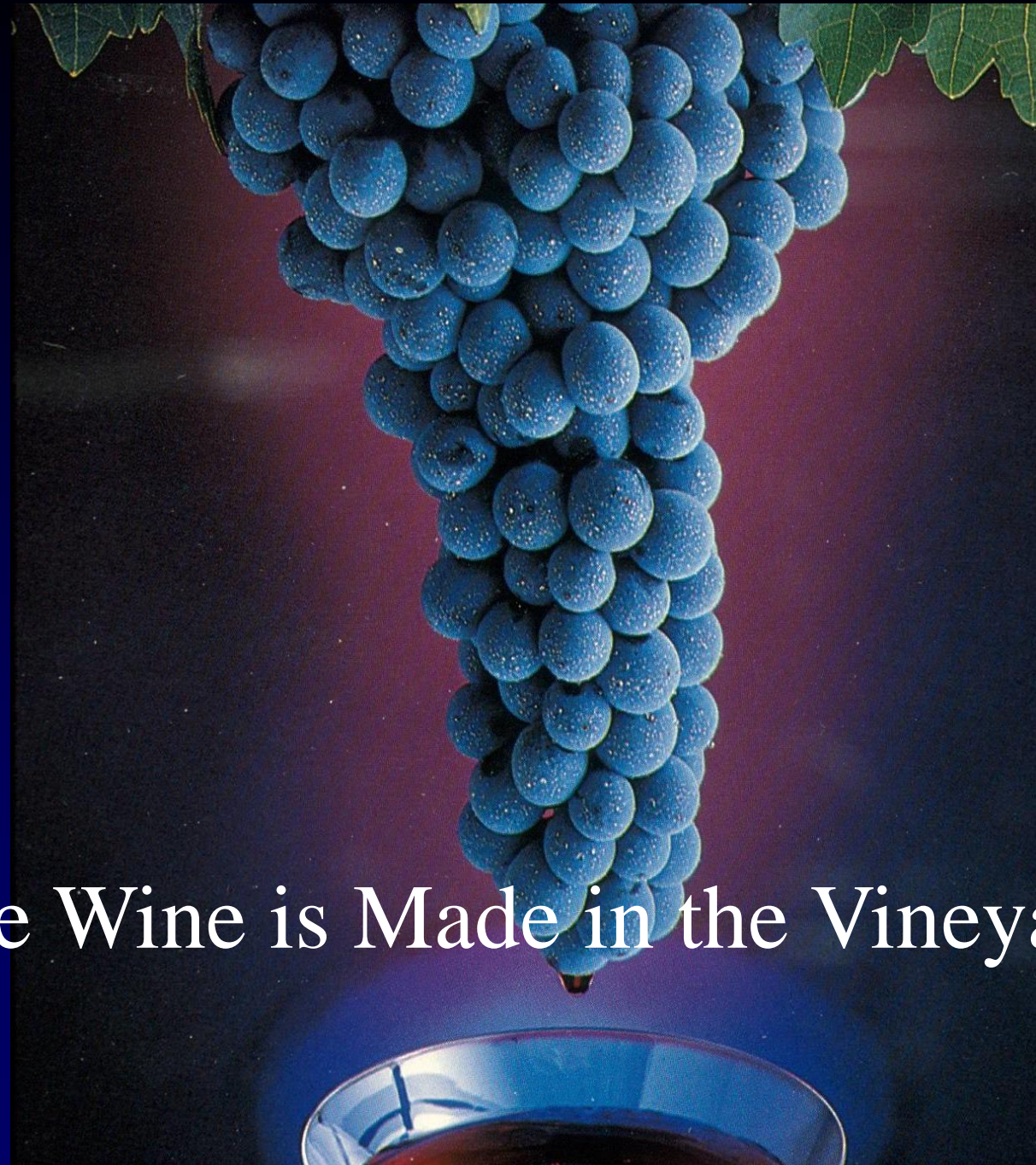
Peter and Gerald Byrne
Callie Hancock
Brianna Lopez
Corteau Vineyards



Joseph A. Fiola, Ph.D.
Specialist in Viticulture
University of Maryland Extension



Corteaou Terroir



The Wine is Made in the Vineyard!



PennState Extension

UNIVERSITY OF
MARYLAND
EXTENSION

Genetics



Environment



Management



To be successful you must have the proper balance/interaction of all 3!

Corteau Terroir

Aspects of Terroir

- Macro/Meso-climate
 - minimum winter/max summer temperatures
 - length of growing season; diurnal flux; humidity
 - precipitation volume and timing
- Site/Topography
 - absolute and relative elevation
 - slope/aspect
- Soils
 - drainage/water holding capacity - sand/**clay**/silt ratio
 - adequate depth to groundwater/SWT
- Interaction with cultivar choices and viticultural management



Genetics



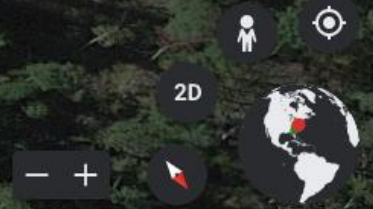
Environment



Management



Corteau Terroir



Corteau Terroir



Evesboro-Westphalia complex

EwC2—6 to 12 %

EwD2—12 to 20 %

EwE2—20 to 40 %t

Sassafras sandy loam

SaaB

Corteau Terroir

SaaB—Sassafras sandy loam
2 to 5 percent slopes

Typical profile

Ap - Bt1 - 0 to 18 inches: sandy loam

Bt2 - 18 to 28 inches: sandy **clay** loam

BC - 28 to 40 inches: loamy sand

C1 - C2 - 40 to 80 inches: sand

Depth to restrictive feature: More than 80"

Drainage class: **Well drained**

Ksat: **Moderately high to high (0.20-2.00"/hr)**

Depth to water table: More than 80 inches

Frequency of flooding: None;

Frequency of ponding: None

EwC2—Evesboro-Westphalia complex
6 to 12 percent

Typical profile

A - 0 to 2 inches: loamy sand

E - 2 to 16 inches: loamy sand

Bw - 16 to 39 inches: loamy sand

C - 39 to 80 inches: sand

Depth to restrictive feature: More than 80"

Drainage class: **Excessively drained**

(Ksat): **High to very high (6.38-99.90 in/hr)**

Depth to water table: More than 80 inches

Frequency of flooding: None;

Frequency of ponding: None

Corteau Ter



Corteau Terroir

<u>Soil Series</u>		<u>White Cultivars (RS)</u>	<u>Red Cultivars (RS)</u>
SaB2	Sassafras sandy loam, 2 to 5 percent slopes Northern Coastal Plain	Viognier (3309, 101-14, Riparia Gloire) CV Proofing (101-14, 5BB)	CV Proofing(101-14, 5BB)
EwC2	Evesboro-Westphalia 6-12% slopes; Mod Eroded		Barbera (101-14) Petit Verdot (3309)
EwD2	Evesboro-Westphalia 12-20% slopes; Mod Eroded	Vidal Blanc (3309, Self, 101-14) Albarino (101-14)	Merlot (3309, Saltcreek 16)
EwC2/EwE2	Evesboro-Westphalia 12-45% slopes; Mod Eroded	Pinot Gris (101-14)	Petit Verdot (101-14, 5BB, 3309C) Touriga (101-14)
EwE2	Evesboro-Westphalia 20-45% slopes; Mod Eroded	Chardonnay (101-14) Vidal (3309)	Morvedre (3309) Barbera (1103P) Cab Franc (101-14,3309C) Cab Sauvignon (3309C) Gamay (101-14) Pinotage (101-14,3309)

“Wine Makes daily living easier,
less hurried, with fewer tensions,
and more tolerance.”

--Benjamin Franklin



UNIVERSITY OF
MARYLAND
EXTENSION



Joseph A. Fiola, Ph.D.

Specialist in Viticulture and Small Fruit

University of Maryland Extension

WMREC, Keedysville, MD

jfiola@umd.edu

www.grapesandfruit.umd.edu



PennState Extension