

UNIVERSITY OF
MARYLAND

EXTENSION

Solutions in your community

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Promising (?) Winegrape Cultivars for the Diverse Regions of Maryland

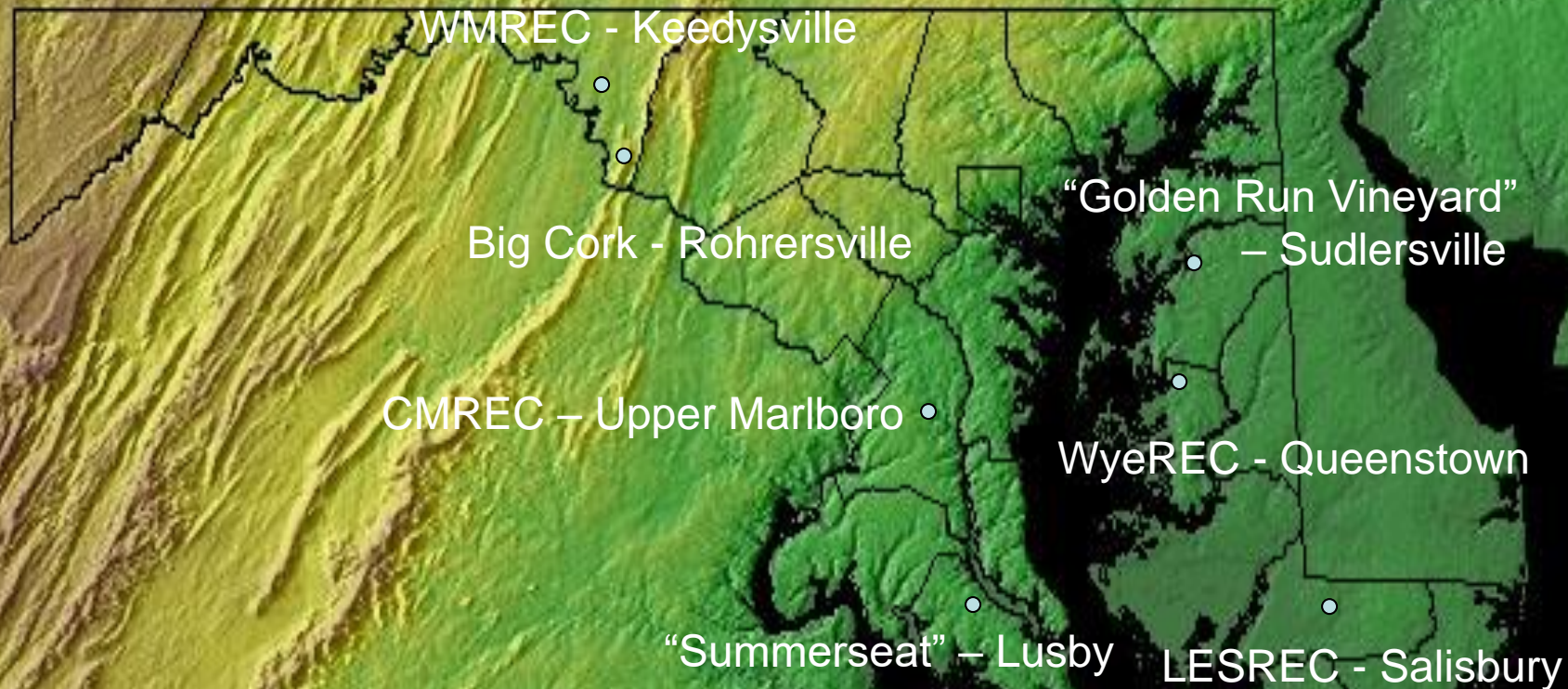
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The Wine is Made in the Vineyard!

UME R&D Vineyard Locations



Enology (Winemaking) R&D



General considerations

- Climate/Variety interaction critical
- Consistent production at your site
- Consistently high quality at your site
 - Cold Hardiness
 - Disease and pest pressure
 - Temperature during ripening (cool nights)
 - Ripe all or majority years!!
- Demand by existing wineries
- Demand by consuming public (winery)
- *Crop value consistently exceeds cost of production*

“Preferred” conditions for producing high quality grapes:

- Moderate winters and limited frosts
 - Preferably minimums $>0^{\circ}\text{F}$
- Well drained, low fertility soil
- Warm sunny days during ripening
 - Preferably maximums $<90^{\circ}\text{F}$
- Cool nights during ripening
 - Preferably $<65^{\circ}\text{F}$
- Limited precipitation
 - Veraison to harvest

“Always enjoy in *moderation*”



'Sauvignon Blanc'

[*vinifera* - France (Bordeaux, Loire), NZ, Aust., Chile]

Strengths:

- Hardiness?
- Good yields
- Early ripening - variable
- Name recognition
- Tolerates heat

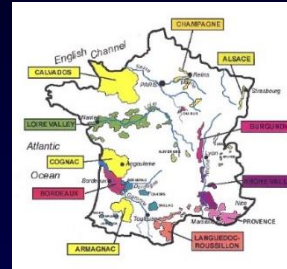
Weaknesses:

- Variable by site
- Tight clusters

Wine

- Tropical, herbaceous; gooseberry, citrus.
- Good structure

Recommended: N, S, E



'Rousanne'

[*vinifera* – France (Rhône, Languedoc)]

Strengths:

- Hardiness
- Very good yields
- Medium ripening
- Aromatic

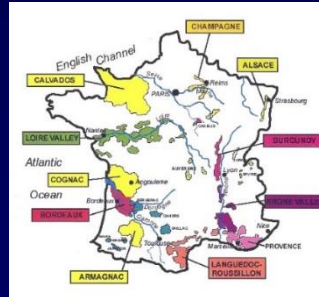
Weaknesses:

- Name recognition
- Limited testing

Wine

- Mildly aromatic; citrus
- Structure, mineral, rustic
- Complex; good food wine

Recommended: N, S, E



34-4-49

Hardy EU Varieties - Hungary, Bulgaria, Georgia “Three way” hybrids (with *V. amurensis*)

Strengths:

- Good wine quality
- Excellent cold hardiness
- Good disease resistance
 - Loose, VERY rot resistant clusters
 - Persistent bloom on berries
- Quality in heat

Weaknesses:

- Limited commercial experience
- Late ripening?

Wine

- Neutral to ‘Sauvignon Blanc’ like
- Good mouth feel; good blender

Recommended: Trial W, N, S, E



SK77-5-3 ('Petra')

Hardy EU Varieties - Hungary, Bulgaria, Georgia

"Three way" hybrids (with *V. amurensis*)

Strengths:

- Excellent cold hardiness
- Good disease resistance - DM
- Quality in heat

Weaknesses:

- Availability? (improving)
- Names/numbers
- Early bud break

Wine

- Aromatic
- Muscat
- Great mouth feel

Recommended: W, N, S, E

- Beware of early bud break



White Varieties in Trial

Albariño	Petite Manseng	XX-11-57
Colombard	XIV-1-86	Muscat Ottonel
Pinot Blanc	Marsanne	54-36-34
Sauvignon Blanc	Ottonel	SK77-10-69
SK77-5-3	Feher	SK77-12-6
Gruner Veltliner	Fernou	Valvin Muscat
Roussanne	Vernaccia	Malvesia Blanc
Vignoles	Vermentino	Linæe
Picpoul	Viognier	Fiano
Verdejo	Arneis	34-4-49
Verdelho	Falenghina	
Muscat Blanc	Viozinho	

'Malbec'

[*vinifera*, France (Bordeaux, Cahors), Argentina]

Strengths:

- Ripens early (9/5/2019)
- High demand
- Consumer recognition
- Good vine balance

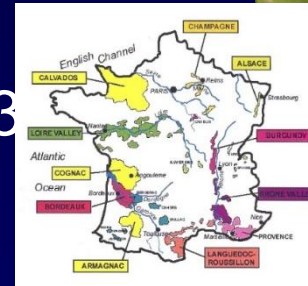
Weaknesses:

- **Cold tender!** Damaged during 2013
- Susceptible to LSR?

Wine:

- Excellent fruit/wine quality
- Soft, fruit, Dark color

Recommendation: Risky; Trial at best sites!!



M15-106

Hardy EU Varieties - Hungary, Bulgaria, Georgia

“Three way” hybrids (with *V. amurensis*)

Strengths:

- Excellent cold hardiness
- Excellent production
- Good disease resistance
 - Rot resistant clusters
 - Persistent bloom on berries
- Quality in heat

Weaknesses:

- No commercial experience
- Mid-season ripening?

Wine

- Black Raspberry/Brambles
- Good color; good mouth feel;

Recommended: Trial W, N, S, E



Petit Verdot

(*vinifera* – French/Bordeaux)

Strengths:

- Productive
- Greater cold hardiness than CabSauv?
- Ripens with Cabernet Franc (or later?)
- Generally adapted

Weaknesses:

- some LSR

Wine:

- Dark; tannic
- High acid and pH in some years
- Unidimensional; no back pallet
- Very Good for blending
 - Color, intensity

Recommendation: W, N, S, E



'Teroldego'

(*vinifera* – Italy/Trentino-Alto-Adige; Parent = 'Dureza' also a parent of 'Syrah')

Strengths:

- Big round berries – big clusters
- Good consistent crop
- Mid-late season red (9/26/13)

Weaknesses:

- DM?
- Vigorous vines

Wine:

- Very deep color
- Ripe dark fruit flavors
- Hold acid well
- Big soft tannin

Recommendation: W, N, E, S



Red Varieties in Trials

Gamay

Garanoir

Gamaret

Teroldego

Barbera

Souzao

Tannat

Chelois

Petit Verdot

Carmenere?

Malbec?

Counoise?

Lagrein

Rofosco

Touriga

Dolcetto

Tempranillo

Montepulciano

Corvina

Vespolina

Schiopitino

Sagrantino

Kozma 55

Kozma 525

Syrah?

Sangiovese?

Pinot Noir?

Durif

Petit Sirah

Grenache

Graciano

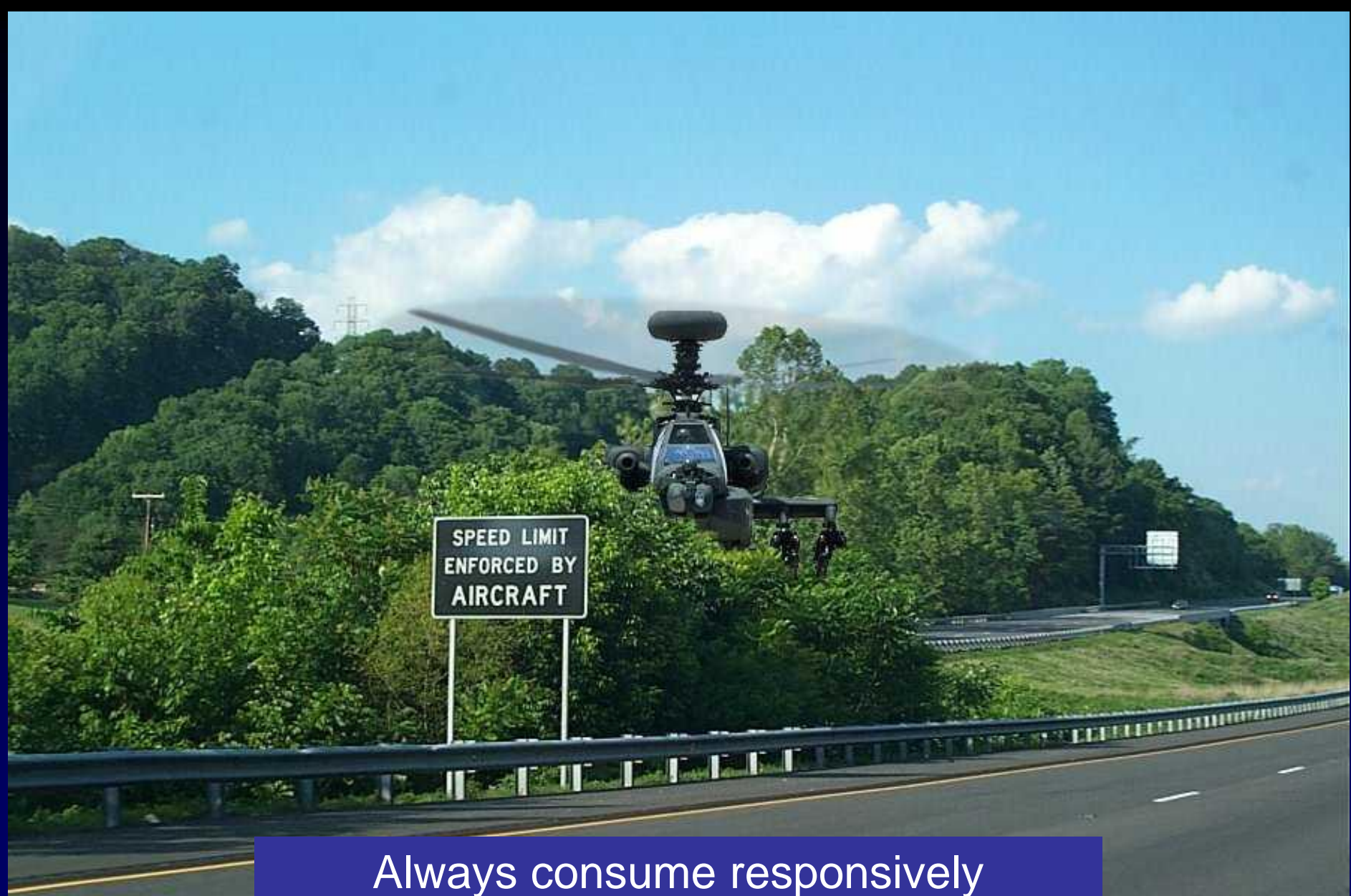
Aleatico

Negro Amaro

Pinotage

Malvesia Negra

San Marco?



Always consume responsively
and in moderation!!!
They may be waiting for you!

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