VINEYARD & WINERY ASSOCIATION OF WEST GEORGIA

Presentation by: Doug Mabry
Hybrids and Heirloom Grapes Worldwide

2014 World Digital Wine Communications Conference in Switzerland

**Switzerland** bringing back Gouais Blanc – Mother grape of Chardonnay, Gamay and other heritage vines were found in a vineyard with 12 other old varietals about to be destroyed.

- Are high yielding.
- More drought resistant than offspring.

**Chile** bringing back Pais grape and other heirloom vines because more disease resistant.
Spain two old grapes now being brought back from edge of extinction. Money and Gonfaus. This is part of a project to revive 40 old varieties to help fight changing climate conditions.

France starting to work with 39 old varieties in a grape conservatory.

• They ripen later.
• Are more drought and disease resistant.
• Produce higher natural alcohol content wines.
Most of the old varieties we are growing are not French hybrids

“A History of Wine In America” – Thomas Pinney

Controlled hybridizing of native American varieties with European varieties went on back at least to the early nineteenth century in America. When the French imported millions and millions of American vines for rootstock during the phylloxera outbreak they referred to grapes like: LeNoir, Norton, Herbemont and others simply as American grapes or American hybrids.

After the phylloxera blight was under control in early 1900s, the French started to experiment with more complex crossings using Some of the American genetics to produce new grapes like Chambourcin, Seyval, Chelois and others. When these vines were brought to the U.S.A they were called French hybrids to distinguish them from the old American hybrids.
Blanc du Bois

- American
- White berries on medium size clusters
- Fruit withstands heat and high humidity
- Resistant to Pierce’s disease and downy mildew
- Susceptible to black rot and anthracnose
• Norton grapes are also called Cynthiana. In form and berry, Norton and Cynthiana are virtually identical.

• This is a grape that is American in origin used principally to produce a dry red wine.

• In 1873 a Norton wine won the gold medal at the Vienna World Exposition as the best red wine in the world. This was the first world wide reorganization for an American wine.
Lomanto

- Medium to large, round.
- Black, thin skin.
- Flesh is melting and of excellent quality.
- Juice is claret red.
- Seeds are small and few.
- Cluster is conical, compact, and above medium size.
- No rot or mildew.
- Leaf is medium, with little pubescence.
- Vine is vigorous and prolific.
- Good in alkaline soils and hot climates.
- Used for juice, jelly, eating out of hand, and in the making of a unique red wine.
Thomas Volney Munson
T.V. Munson Memorial Vineyard
“Resistance is our most important, economically viable, environmentally safe, and socially acceptable disease management strategy for the long-term success of mankind.”

Chen, Copes, Miller, & Lamikanra
2001, p. 228
LeNoir

- American
- Small to medium, bluish black berries (red juice) on loose clusters
- Vines are vigorous and productive
- Resistant to Pierce’s disease and powdery mildew
- Highly susceptible to black rot and downy mildew
National Grape Registry

- **Prime Name:** Lenoir
- **Common Synonym:** Ohio, Jacques, Le Noir, Lenoir Jacquez, Black Spanish
- **All synonyms:** Alabama, Archer, Black El Paso, Black July, Black LeNoir, Black Sauvignon, Black Spanish, Blue French, Blue Grape of the South, Burgundy, Cigar Box Grape, Clarence, Devereaux, Devereux, Early Black, El Paso, Harr, Jac, Jack, Jacques, Jacques a Gros Grains, Jacquet, Jacquez, July Sherry, Le Noir, Lenoir Jacquez, Long, Ohio

*Species:* *Vitis bourquiniana*

*Pedigree:* *Vitis aestivalis, Vitis cinerea, Vitis vinifera*
Vitis Bourquiniana Species

- Bertrand
- Carminet
- Caspar
- Cunningham
- Devereaux
- Harris
- Harwood
- Herbemont
- Herbemont Seedlings
- Irvin October
- Kay Seedling
- LeNoir
- Longworth
- Ohio
- Palmetto
- Pauline
- Texas
1817 – Devereux (LeNoir) vines listed in grapes of New York article.

1832 - Sinclare & Moore of the Pratt Street Wharf in Baltimore, Maryland. List grapes for sale included LeNoir.

1869 – “Hardy native grape vines for sale” George Campbell Nursery, Delaware, Ohio. LeNoir

1898 – Comal Springs Nursery – New Braunfels, Texas. LeNoir, Herbemont.

1893 – Sherwood Hall Nursery Company, San Francisco, California, Resistant vines for sale...Lenoir.

1896 – Lenoir vines for sale by, N. Spatcier – Las Cruces, New Mexico.

1910 – Fresno Nursery, Fresno California Resistant vines for sale – LeNoir
1861 – Catalogue of Native & Foreign Grape Vines
Grapes Vine Nursery of Chas. J. Uhlmann
Washington, D.C., Archer grape vines (Lenoir), Norton.

1861 – Fruitland Nurseries, August, Georgia – 600 acres
Prosper J. Berckman – Catalog has LeNoir, Norton and Herbemont.
1883 – “The Grape Vines of the United States”

By Dr. George Engelmann

LeNoir or Jacquez or Black Spanish has been planted by the millions in southern France, not only for grafting but for the superior deep-colored wine.
1903 - Jacquez... there is not a viticulture section on the continent where it is not known either as a direct producer or as a root stock. This variety is very successful in all sections, from the Alps to the ocean.

1872 – M. H. Aquillon, who had lost all his vineyards to phylloxera, set out 150,000 cuttings of 800 different varieties from around world. After two years all had started to die except five.

Jacquez, Herbemont, Cunningham (all vitis Bourquiniana) Taylor (riparia) and York Madeira (American hybrid now extinct). Twelve years later all growing strong in spite of being in poor stoney soil.
1886 - Viticulture Congress at Montpellier School of Agriculture. Jacquez wine was given a gold medal. The wines of the Jacquez grape are superior to that of many grafted European vines.

1903 – French Viticulture officials thought that the Jacquez grape was so important then, suggested using one name internationally Jacquez LeNoir.

1883 – Bush and Son Fruit Catalogue, St. Louis, MO. “This old almost abandoned grape seems destined to become one of the leading varieties of both hemispheres.
1934 – Six American hybrid grapes banned from commercial production in France:

Jacquez, Herbemont, Clinton, Isabelle, Othello and Noah.

1955 – European Economic Community – banishes them from Europe.

1993 – Birth of the association “Memoire de la Vigne”
• Jacquez (a/k/a LeNoir)
• Official Folklore Heirloom Grape in France
Assessment of powdery mildew resistance of grape and *Erysiphe necator* pathogenicity using a laboratory assay

J. P. PÉROS, T. H. NGUYEN, C. TROULET, C. MICHEL-ROMITI and J. L. NOTTEGHEM 2)

1) UMR DGPC and 2) UMR BGPI, INRA, Montpellier, France
**Powdery mildew resistance of grape and Erysiphe necator pathogenicity**

Percentage of infection and mean colony diameter for 7 grapevine cultivars inoculated with Erysiphe necator

<table>
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<th>Cultivar</th>
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Brazil – 2010 Agriculture Census – Grape varieties

Jacquez – 5,405 acres
Herbemont – 1,833 acres

Australia
• Two Tale Wines – Nana Glen, New South Wales
  Has Jacquez grape – Call their fortified wine LeNoir
• Mill Ridge Estate – South Wales – Jacquez grapes
• Riversands wines – St. George, Queensland list Jacquez grape.

In Australia, South Africa and Jacquez sometimes called Troya.
• Numerous studies have shown that hybrid grapes often have qualitatively and quantitatively higher polyphenolic contents than common Vitis vinifera grapes varieties.

• The Norton grape contained significantly higher total phenolic anthocyanin and flavonoid content than the Cabernet Franc grape.

• ...flavonoids are the main candidates considered to have biological properties, including but not limited to antioxidant, anti-inflammatory, anti-cancer, antimicrobial, antiviral, cardio protective neuroprotective and hepatitis protective activities.
• Flavonoids of black grape varieties grown in South Africa.  
  ...the black vinifria grapes on average had 8 flavonoid components compared to the Jacquez grapes that had 14.

• ...these findings suggest a potential beneficial use of JWE (Jacquez wine extract) in the treatment of diarrheal diseases.

• ...extract of Jacquez (Vitis aestivalis – cenerea x Vitis vinifera) grape is a natural treatment for osteoarthritis.

• In all in vitro tests employed, the JW-E proved to possess strong antioxidant/free radical – scavenging effectiveness.
**Component:** Vitis Biocomplex

**Action:** Obtained from Jacquez grape must, a particular cultivation with a high content of healthy active compounds. The active substances contained in Vitis Biocomplex include polyphonic antioxidants, which are the main active biophenols present in red wine.

**Effect:** Protects the skin against the damaging effects of UV rays and contamination that damages the skin. Antioxidant and protects the skin.
Analyte | Result | Analysis Date | Method Reference
--- | --- | --- | ---
Catechin | 2 mg/L | 6/7/17 | Phenolic antioxidants (HPLC)
Tannin | 912 mg/L | 6/7/17 |
Resveratrol (cis + trans) | 1.2 mg/L | 6/7/17 |
Quercetin glycosides | 19 mg/L | 6/7/17 |
Quercetin | 6 mg/L | 6/7/17 |

The results in this report relate only to samples as submitted.

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Gordon Burns
Technical Director
Supplement Facts

Serving Size: One Capsule

Amount Per Serving

Grape Seed Extract (Vitis vinifera) 300 mg
(95% Polyphenols = 285 mg)

* Daily Value not established.

Other Ingredients: Dicalcium Phosphate, Vegetable Cellulose Capsule, Cellulose.

WARNING: Consult your physician prior to using this product if you are pregnant, nursing, taking medication, or have a medical condition. Discontinue use two weeks prior to surgery.

Potency verified by GNC procedure #5342. Conforms to USP <2091> for weight. Meets USP <2040> disintegration.

No Sugar, No Artificial Colors, No Artificial Flavors, Sodium Free, No Wheat, No Gluten, No Soy, No Dairy, Yeast Free.

This statement has not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.

Earn Points. Get Rewards.

33.99

Earn Points. Get Rewards.

36.49
Wine Blogs

• Varieties of Vitis aestivalis, such as LeNoir, Norton and others, are gaining favor among wine enthusiasts who are looking for new tastes and locally sourced American products.

• LeNoir – This old grape is becoming new again as wine enthusiasts seek out new varieties and flavors and as winemakers are improving techniques with this distinctive and potentially rewarding variety.
Culinary or Food Tourism

• Food and Drink Tourism is becoming a regional culture heritage item emphasizing local and heirloom products.
• In your marketing always use hot button words such as: Local, craft, rare, artisan, handcrafted, unique, sustainable.
Planning a Day Trip for: Gold Panning, Zip-line Tours, Museum Visits and Wine Tasting?

Head West Instead of North and spend more time on your DAY and less time on your TRIP.
Come to Carroll County, Just 35 miles west of the Atlanta City Limits out I-20 and visit:

- The Pine Mountain Gold Museum, Villa Rica
- Historic Banning Mills Paper Mill Museum and World class Zip-Line Tours, Whitesburg
- Little Vine Vineyards and Winery, Villa Rica
- Uncorked on Main, Villa Rica
- Southeastern Quilt and Textile Museum, Carrollton

HEAD WEST FOR - Dipping, Zipping, Stitching and Sipping

Pine Mountain Gold Museum

Historic Banning Mills

Southeastern Quilt and Textile Museum

1. Little Vine Vineyard and Winery
2. Uncorked on Main
American Hybrid Grapes

• **Hardy** vines

• **Healthy** wines

• **Heirloom** grapevine stories
What is the end game?

Options for growers

• Start your own winery
• Sell grapes to an existing winery
• Have grapes custom crushed and bottled (Still have to have your own retail outlet)
• Co-op winery
Prospectus

VINA VISTA FRUIT & WINERY ASSOCIATION

TRADE MARK.

A Co-Operative Fruit Raising and Fruit Shipping Association.
The Pioneer Winery of the South.
Vina Vista, Coweta County, Ga.
Heritage Vines
~
Local Crafted American Wines