

Meet the Muscadine

Disease-resistant, Adaptive, Healthful



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Grape diseases can be major!



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**That's why I
recommend
muscadines!**







What is a Muscadine?

- A grape...





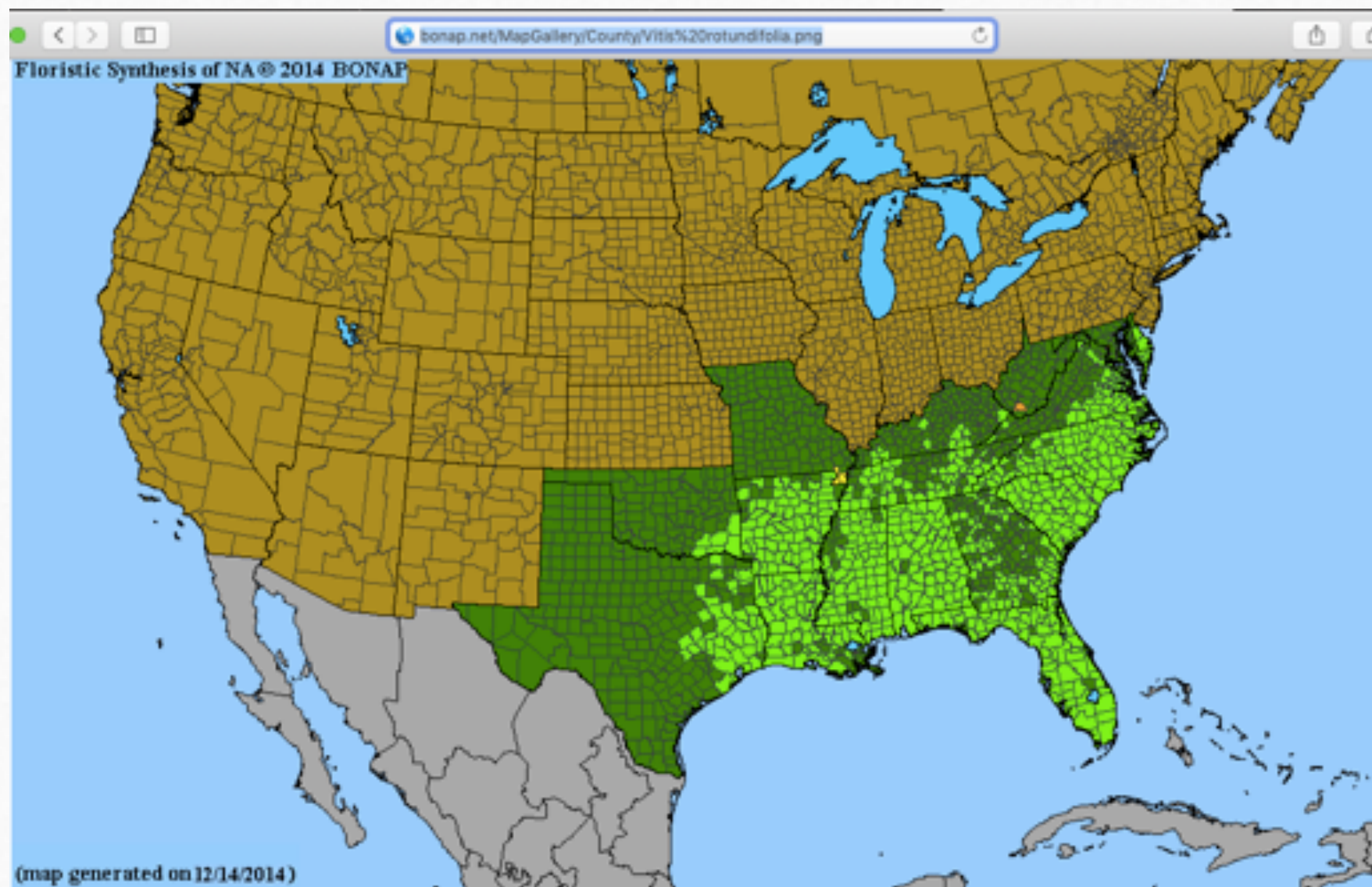


What is a Muscadine?

- Different from a typical grape...









BIG RED MUSCADINE



\$10.75 – \$14.25

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BLACK BEAUTY MUSCADINE



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BLACK FRY MUSCADINE



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> *J Agric Food Chem.* 2003 Aug 27;51(18):5497-503. doi: 10.1021/jf030113c.

Phenolic content and antioxidant capacity of muscadine grapes

Eduardo Pastrana-Bonilla¹, Casimir C Akoh, Subramani Sellappan, Gerard Krewer

Affiliations + expand

PMID: 12926904 DOI: 10.1021/jf030113c

Abstract

Fruits of 10 cultivars of muscadine grapes (five bronze skin and five purple skin) grown in southern Georgia were separated into skin, seed, and pulp. Each fruit part and the leaves from the corresponding varieties were extracted for HPLC analysis of major phenolics. Total phenolics were determined colorimetrically using Folin-Ciocalteu reagent. Total anthocyanins were determined according to a pH-differential method, using a UV-visible spectrophotometer. Antioxidant capacity was determined by the Trolox equivalent antioxidant capacity (TEAC) assay. Gallic acid, (+)-catechin, and epicatechin were the major phenolics in seeds, with average values of 6.9, 558.4, and 1299.4 mg/100 g of fresh weight (FW), respectively. In the skins, ellagic acid, myricetin, quercetin, kaempferol, and trans-resveratrol were the major phenolics, with respective average values of 16.5, 8.4, 1.8, 0.6, and 0.1 mg/100 g of FW. Contrary to previous results, ellagic acid and

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Abstract

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Antioxidant Capacity

- **Blueberries and Blackberries – 8.11-38.29 TEAC¹**
- **Muscadine pulp – 2.4 TEAC²**
- **Muscadine skin – 12.8 TEAC²**
- **Muscadine seeds – 236.1 TEAC²**

¹Sellappan S., Akoh C.C., Krewer G. 2002. Phenolic compounds and antioxidant capacity of Georgia-grown blueberries and blackberries. *J. Agric. Food Chem.* **20**, 2432-2438 in Shi, X., and Hoffmann, M. (2010), Critical Article: Muscadine's Health Benefits. Retrieved from <https://smallfruits.cals.ncsu.edu/2020/06/critical-article-muscadines-health-benefits/>

²Pastrana-Bonilia E., Akoh C.C., Sellappan S., Krewer G. 2003. *J. Agric. Food Chem.* **51**, 5497-5503 in Shi, X., and Hoffmann, M. (2010), Critical Article: Muscadine's Health Benefits. Retrieved from <https://smallfruits.cals.ncsu.edu/2020/06/critical-article-muscadines-health-benefits/>

Why I promote muscadines

- Unique* taste
- Arguably the best disease resistance of any grape
- Not fussy about soil for the most part
 - Highly productive
- One of the best no-fuss additions to a wild orchard (or vineyard)!



Choosing Your Site

- Adapt very well to a variety of sites, but have a few constraints.
 - pH of 6-7 (no alkaline soils)
 - Full sun
 - Deer protection
 - North Slope at times*



Choosing Muscadine Varieties

- [Isons.com](#) > The Gardeners' Guide (bottom of page) > "Muscadine Characteristic Chart"



Choosing Muscadine Varieties

- Cold Hardiness
- Pollination
- Stem Scar
- Color
- Use

VARIETIES	Patented or Standard	Size in Inches	Sugar Content	Disease Resistance	Cold Hardiness	Vigor	Harvest Season	Berry Stem Dry Scar %	Flower Sex	Color	Yield	Uses
Big Red ©	Pat # TBA	1 1/4	20%	G	G	G	M	90%	Female	Red	M-H	F-J
Black Beauty ©	Pat #7592	1 1/4	23%	E	G	VH	M	76%	Female	Black	M	FWJ
Black Fry ©	Pat #5824	1 1/4	19%	E	G	H	M-L	64%	Female	Black	H	FJ
Carlos	Std.	1/2	16%	F-G	E	M-H	M	82%	Self-Fert.	Bronze	M-H	W
Cowart	Std.	1	17%	G	E	M-H	M	16%	Self-Fert.	Black	M	FJ
Darlene ©	Pat #7314	1 1/2	22%	G	G	VH	E-M	90%	Female	Bronze	M-H	FJ
Dixie Red ©	Pat #4770	1	17%	F-G	G	M-H	E-M	21%	Self-Fert.	Red	M	FJW
Early Fry ©	Pat #9225	1 1/4	18%	G	G	H	VE	66%	Female	Bronze	VH	FJ
Fry	Std.	1 1/4	21%	F	F-G	L-M	E-M-L	52%	Female	Bronze	M-H	F
Fry Seedless ©	Pat #7296	1/2	18%	E	G	H	E-M	20%	Self-Fert.	Red	L-M	F
Granny Val ©	Pat #5823	1 1/4	18%	G	G	H	L	94%	Self-Fert.	Bronze	VH	F
Higgins	Std.	1 1/8	16%	F-G	F-G	M-H	L	20%	Female	Red	M-H	FW
Hunt	Std.	1	17%	F-G	G	M-H	E-M	20%	Female	Black	M-H	FJW
Ison ©	Pat #5822	1 1/8	19%	E	G	H	E	92%	Self-Fert.	Black	VH	FWJ
Janet ©	Pat	1 1/8	21%	G	E	VH	M	35%	Female	Bronze	M-H	F
Jumbo	Std.	1 1/2	15%	G	G	M-H	E-M	74%	Female	Black	M	JF
Late Fry ©	Pat #9224	1 1/2	20%	E	E	H	VL	95%	Self-Fert.	Bronze	H	F
Magnolia	Std.	1/2	15%	F-G	G	M-H	M	15%	Self-Fert.	Bronze	M-H	WJ
Nesbit	Std.	1 1/8	18%	G	G	M-H	M-L	41%	Self-Fert.	Black	H	FJ
Noble	Std.	1/2	16%	G	G	M-H	E-M	15%	Self-Fert.	Black	M-H	WJ
Pam ©	Pat #7707	1 1/2	21%	E	G	M-H	E-M	87%	Female	Bronze	VH	FJ
Pineapple ©	Pat #7268	1	16%	E	G	M	M-L	47%	Self-Fert.	Bronze	VH	FJ
Scarlet	Std.	1 1/8	17%	G	G	M	M	72%	Female	Red	M	FJ
Scuppernon	Std.	1	17%	F-G	E	M	M	38%	Female	Bronze	L-M	FJW
Southland	Std.	1/2	17%	G	F-G	M	M	51%	Self-Fert.	Black	M	FJ

Acquiring Vines

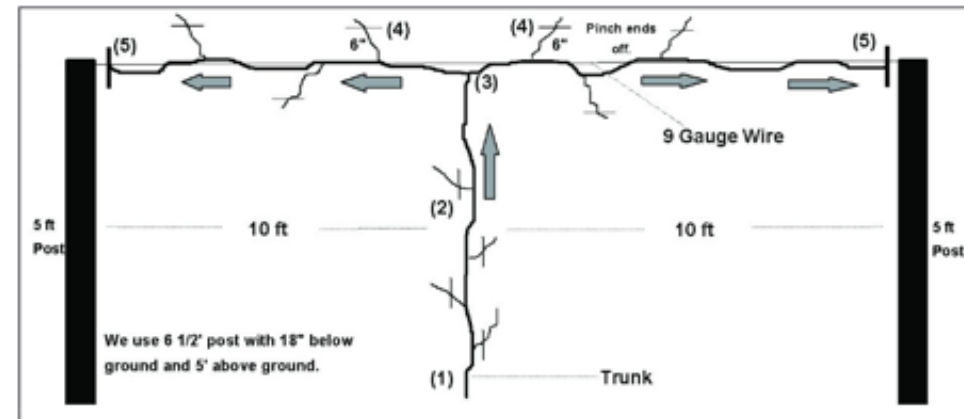
- Purchase
- Propagate
- Plant Patents



Trellising Muscadines

- Isons.com > The Gardener's Guide (bottom of page) > "Developing the Muscadine Vine

DEVELOPING THE MUSCADINE VINE



(1) At planting, prune all side growth. Find longest runner and prune off all other side growth.

(2) Keep all side growth removed from trunk area leaving only leaves that are closest to the trunk.

only leaves that are closest to the trunk.

(3) Once vine reaches top of wire, lead vine down wire in one direction and wait for a sucker to put out and lead

down wire in other direction.

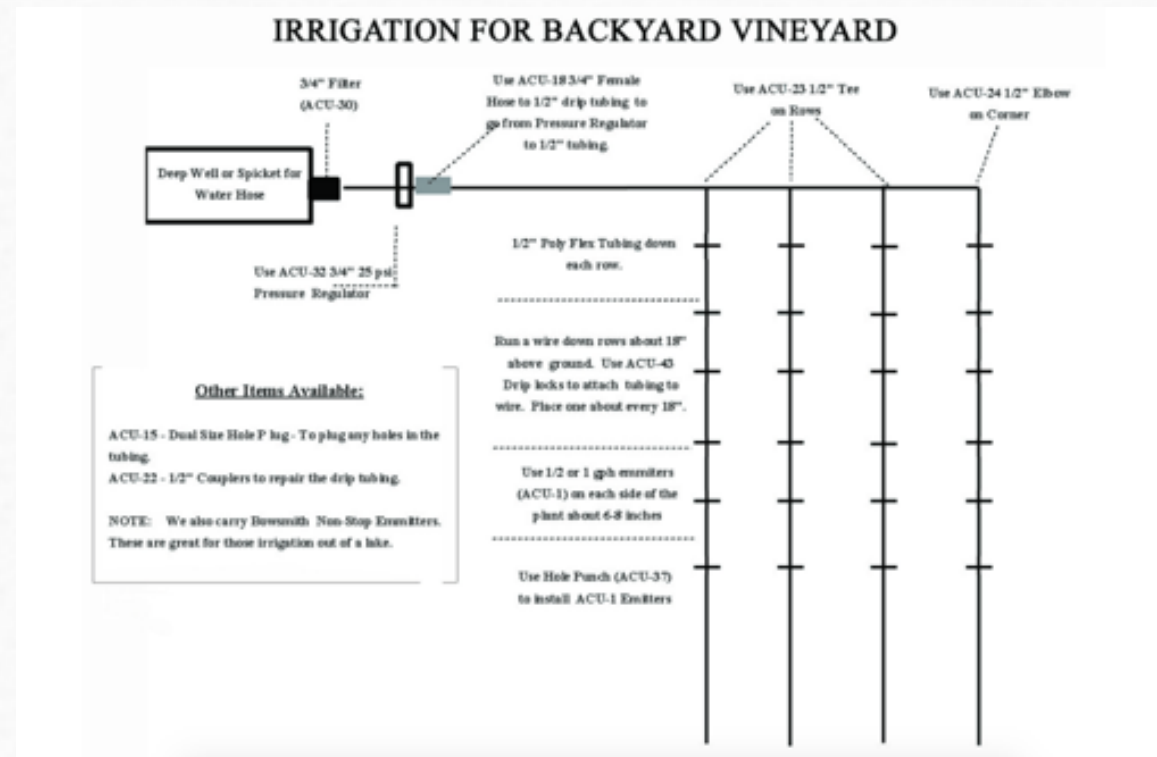
(4) Allow side growth off main vine growing down wire to grow 6" long then pinch tip off every 10-12 days until main vine reaches 10' in each direction.

vine reaches 10' in each direction.

(5) Once vines reaches 10' down the wire, keep main vine cut back to 10' and allow growth back to side growth.

Muscadine Irrigation

Isons.com has all the materials you need to set up an excellent drip vineyard irrigation system. Give them a call!



Pruning Muscadines

- Pruning essential to maintain productivity
- Pruned annually during the dormant season
 - Spur-pruning method
- Excellent tutorial from Isons.com:
https://www.youtube.com/watch?v=x_9pk3cnPGI



Questions?

Summit Muscadine

“[O]ne of the most productive varieties grown in East Texas”

[\(https://aggie-horticulture.tamu.edu/fruit-nut/fact-sheets/muscadine/\)](https://aggie-horticulture.tamu.edu/fruit-nut/fact-sheets/muscadine/)

...and other top-notch varieties!



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