

# ‘Paulk’ Muscadine



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# 'Paulk' Muscadine

- Tested as Ga. 6-2-26.
- 'Supreme' x 'Tara' progeny.
- Tested from 2011 – 2016, released in 2017.
- Named for Mr. Jacob Paulk, founder of Paulk Vineyards.



# Berry quality of 'Paulk' muscadine at Tifton Ga., (2012-2016)

Cultivar	Flower type	Berry color	Berry weight (g)	Berry diameter (mm)	Percent soluble solids of all harvests
Paulk	SF	Black	15.5 a	30.2 a	14.2
Supreme	F	Black	15.1 a	29.9 a	14.3
Fry	F	Bronze	11.7 b	27.4 b	14.0
Hall	SF	Bronze	10.2 cd	26.0 cd	14.5
Lane	SF	Black	9.6 d	25.6 d	15.3
Tara	SF	Bronze	10.8 bc	26.4 c	13.9
Sig.			<0.001	<0.001	NS





- Similar appearance to Supreme.
- More prominent lenticels.
- Slightly redder color.
- More consistent berry size, few small berries, few giants.



# Harvest date of 'Paulk' Muscadine

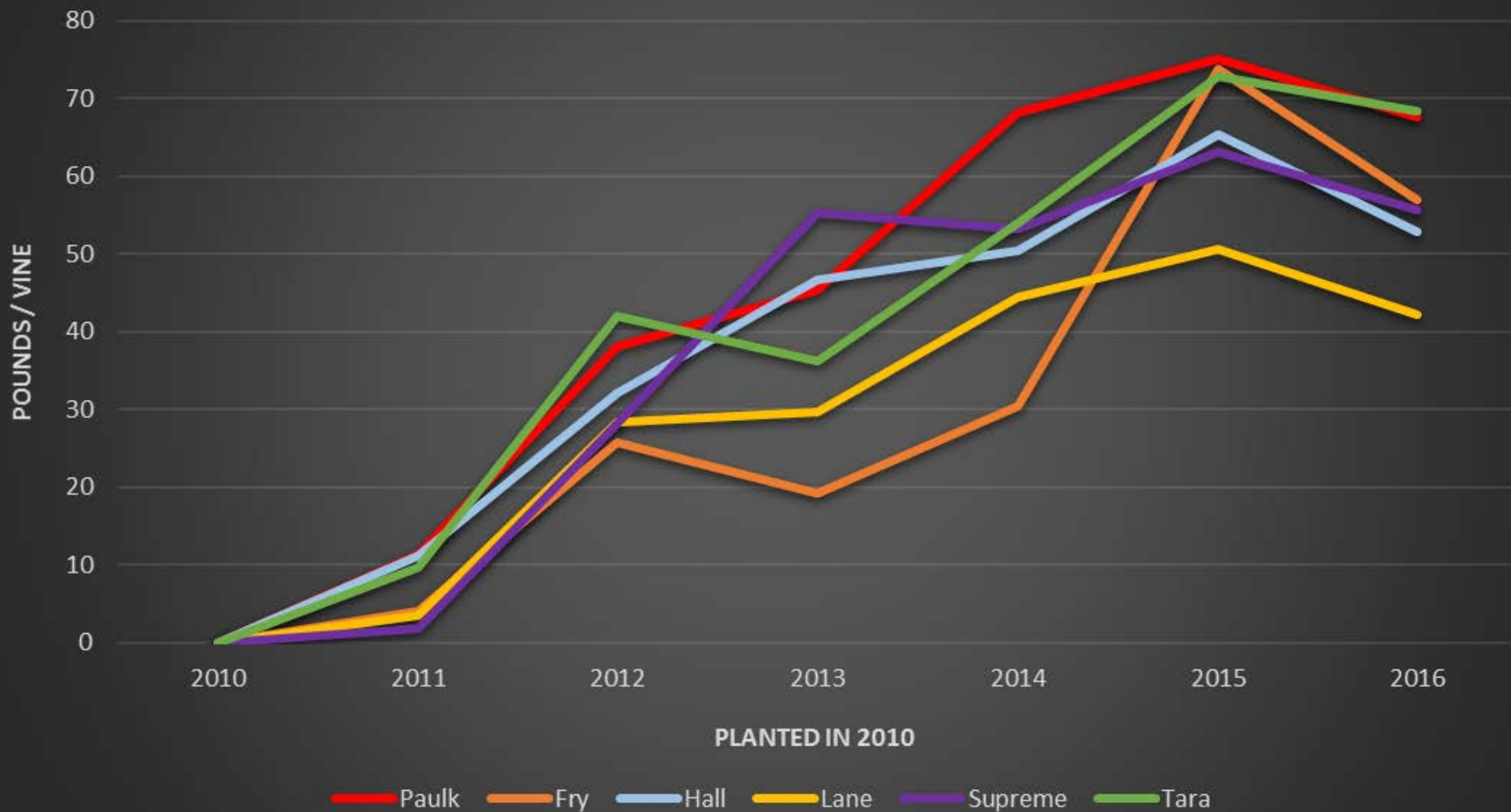
Cultivar	Avg. day of first harvest	Percent of total yield of first harvest	Percent soluble solids (Brix) of first harvest
Paulk	Aug. 20	65	14.3
Supreme	Aug. 16	60	14.8
Fry	Aug. 15	64	14.3
Hall	July 31	47	14.9
Lane	Aug. 1	56	14.6
Tara	Aug. 2	61	14.2

\* Early berries of 'Supreme' could have been picked, 'Paulk' does not have early ripening berries.





# Yield (pounds per 10 foot vine) in Tifton 2010-2016



# Notes on Yield of 'Paulk' Muscadine

- Good yields in tests.
- Can overproduce with lower quality and delayed harvest.
- Too heavy yield in Wray test in 2015, 'Supreme' had a lot of vine death, no death in 'Paulk'.

Need to thin crop to keep  
quality and flavor up in some years.



# 'Paulk' Muscadine Berry Quality Tifton, Ga.

Cultivar	% Rot	% Split	% Tear	% Dry
Paulk	8 b	4 c	11 d	85 ab
Supreme	4 c	13 b	29 b	59 c
Fry	16 a	18 a	34 a	48 d
Hall	17 a	3 c	8 d	90 a
Lane	4 c	22 a	23 c	55 c
Tara	10 b	5 c	12 d	83 b
Sig.	<0.001	<0.001	<0.001	<0.001

\* More rot in 'Paulk' than most black muscadines, fungicides may be needed.





# 'Paulk' has long stems, helping to pick clean berries.

Short pedicel



'Supreme'

7.1 mm

Long pedicel



Ga. 6-2-26

11.5 mm



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# 'Paul' Berry Firmness

Cultivar	Firmness ( $\text{g} \cdot \text{mm}^{-1}$ )	Firmness ( $\text{g} \cdot \text{mm}^{-1}$ )
	Day 0	Day 10+1
Paulk	240 a	203 b
Supreme	248 a	228 a
Fry	199 b	178 c
Sig.	<0.001	<0.001

Larger numbers = More firm.



# Prominent features of 'Paulk' muscadine.

- First self-fertile cultivar where berry size has continued to be large over time.
- Excellent yield potential.
- Good vigor, much better than 'Lane', but still can be overcropped.
- Overcropped berries will lack flavor and be later.





# Prominent features of 'Paulk' muscadine.

- Skin and flesh texture similar to traditional muscadines.
- No early berries, you need to have an early black cultivar.  
    'Lane' or 'Supreme'
- Much less berry split and tearing than 'Supreme'.
- More disease susceptibility than most blacks, still much better than bronze cultivars.
- Unknown cold-hardiness.



# ‘Paulk’ recommendation

‘Paulk’ is a potential self-fertile replacement for ‘Supreme’ for mid to late season. I would plant and prune or thin crops as needed to maintain ideal fruit set. Keep enough ‘Supreme’ to pick over for early sales and perhaps to keep for longer term storage.



# Availability

‘Paulk’ is patented and available from the following nurseries:

Bottoms Nursery

Ison’s Nursery

Agri-Starts

Lakeview Daylily, Koi& Plant Farm

