Grand Valley 2014 cold-hardy variety trial

- Near Clifton
- Planted in 2014
- High Cordon
- Sprinkler irrigated with grass/legume cover crop
- 11 varieties with 6 replications (RCBD)
- Only 5 replications with La Crescent
- 4 vines per replication
- Row x vine spacing is 9’x 5’
- First harvest in 2016
Grand Valley 2014 cold-hardy variety trial

12 Varieties

- Aromella
- Arandell
- Brianna
- Cayuga White
- Chambourcin
- Corot noir
- La Crescent
- Marquette
- Noiret
- St. Vincent
- Traminette
- Vignoles
2016 Harvest

Percent of vines with crop in third year

- Arandell
- Traminette
- Noiret
- Vignoles
- La Crescent
- Marquette
- Coro noir
- Brianna
- Chambourcin
- Cayuga White
- Aromella
- St. Vincent
2016 Harvest

24 vines per variety

Total yield (lb)

Arandell
Traminette
Noirdet
Vignoles
La Crescent
Marquette
Corot noir
Brianna
Chambourcin
Cayuga White
Aromella
St Vincent
Yield data based only on vines with crop
Summary 3rd year

The highest total yield:
- St. Vincent
- Aromella
- Cayuga White
- Chambourcin

Brianna had a high yield per vine, but few vines carrying a crop.
Compared to year 3, the yield per acre more than doubled for Noiret in year 4, but was down for Aromella, Chambourcin, Noiret, St Vincent, and Vignoles.

The low yield with Brianna was due to >90% bird damage.

Yield of the other varieties was similar in years 3 and 4.
2017 Harvest
In year 5, yields increased nearly 3-fold compared to year 4.

Vine mortality is a concern with St Vincent. After 5 years only 50 % of the vines are still alive.
2018 Harvest

![2018 Harvest Chart]

Yield (ton/acre)

- Arandell
- Aromella
- Brianna
- Cayuga White
- Chambourcin
- Corot noir
- La Crescent
- Marquette
- Noiret
- St Vincent
- Traminette
- Vignoles
The highest cumulative yields after 3 harvest are with Aromella and Cayuga White (> 10 ton/acre) followed by Noiret (8.8 ton/acre).

The lowest cumulative yields after 3 harvest are with Vignoles, Brianna, Traminette, and Arandell (4.6 to 6.2 ton/acre).
Cumulative yield, 2016 - 2018

Cumulative yield, 2016-2018 (ton/acre)

- Arandeli
- Aromella
- Briana
- Cayuga White
- Chambourcin
- Corot noir
- La Crescent
- Marquette
- Noiret
- St Vincent
- Traminette
- Vignoles
Grand Valley 2014 cold-hardy variety trial

For more detailed information on this and other research projects please review our Annual Research Reports available on our web page:
Questions?

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