



## 2008 grape variety trial at Rogers Mesa

Horst Caspari



## NE-1020 Variety trial at Rogers Mesa

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In 2008, we started a new variety trial at the Western Colorado Research Center – Roger Mesa.

This trial is part of a nation-wide network of variety trials referred to as NE-1020 project: “Multi-State Evaluation of Winegrape Cultivars and Clones”.

Evaluation of several *V. vinifera* and hybrid varieties as well as new advanced breeding selections (MN, NY).

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## NE-1020 Variety trial at Rogers Mesa

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- *V. vinifera* – Auxerrois, Bianchetta trevigiana, **Blauer Portugieser**, Grüner Veltliner.
  - Cold-hardy, resistant varieties – **Chambourcin, Marquette, MN 1200,** Aromella (NY 76.0844.24), NY 81.0315.17, Vidal.
  - NY 81.0315.17 is grafted to 101-14. All other varieties are own-rooted.
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## Materials and Methods

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- Planted in 2008, with additions in 2009 (Chambourcin, MN1200, Marquette, Vidal)
  - Design: RCB (6 blocks, 4-vine plots)
  - Vine x row spacing is 5' x 8'10"
  - Cordon and spur
  - VSP for *V. vinifera*
  - High cordon for cold-hardy varieties
  - Drip irrigation with bare soil
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## Materials and Methods

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First crop in 2010

In 2015, the entire crop was destroyed by birds and racoons.

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## Materials and Methods

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### Minimum temperatures during dormancy (2010 to 2016 season)

- -6.7 (10 Dec 2009)
  - -9.8 F (3 Feb 2011)
  - -1.9 F (24 Dec 2011)
  - -11.8 F (15 Jan 2013)
  - -7.3 F (5 Dec 2013)
  - 1.9 F (1 Jan 2015)
  - -5.7 F (27 Dec 2015)
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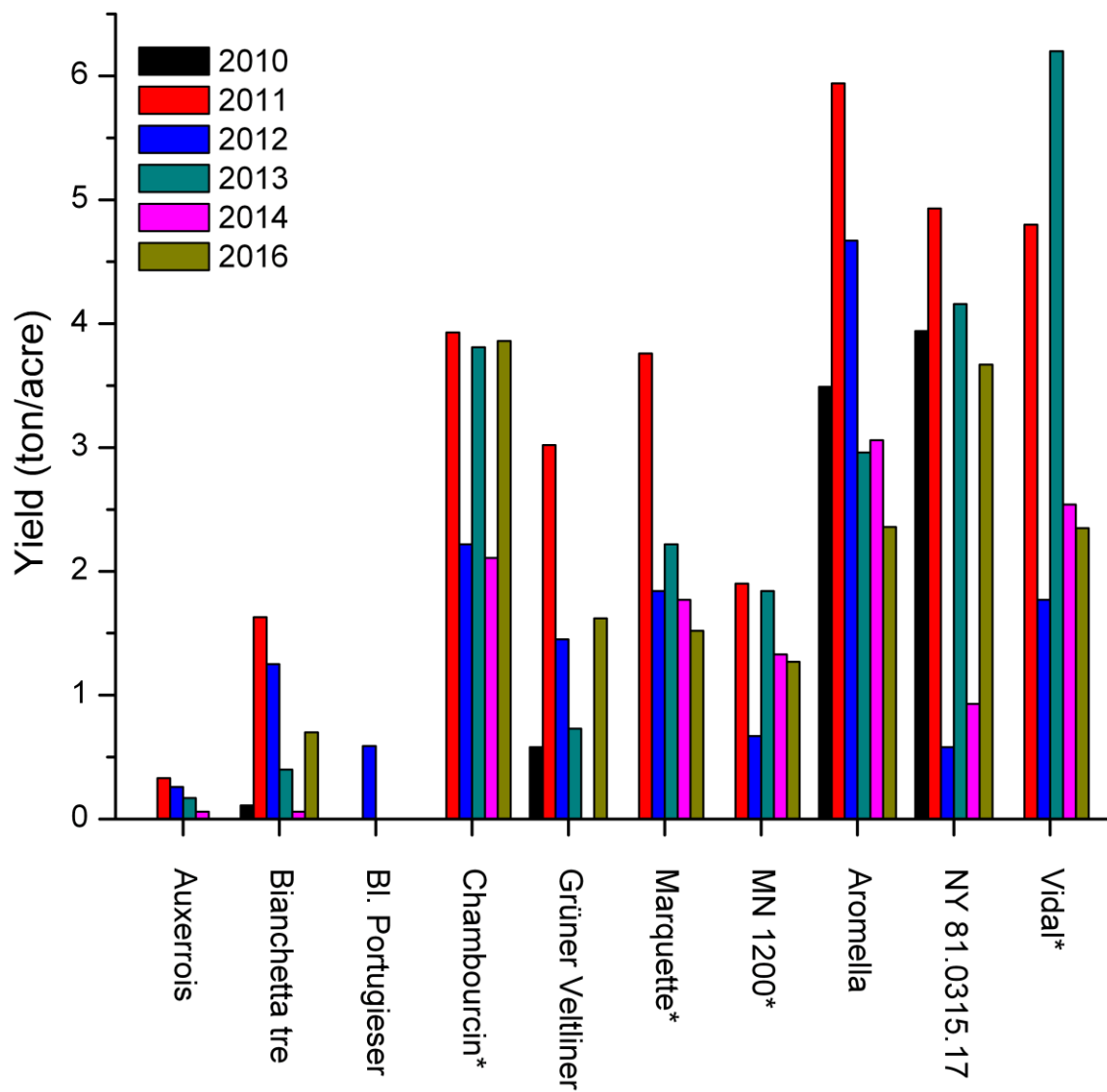
# Cold? - Where? When?

## Perfect bud break on Marquette in 2011





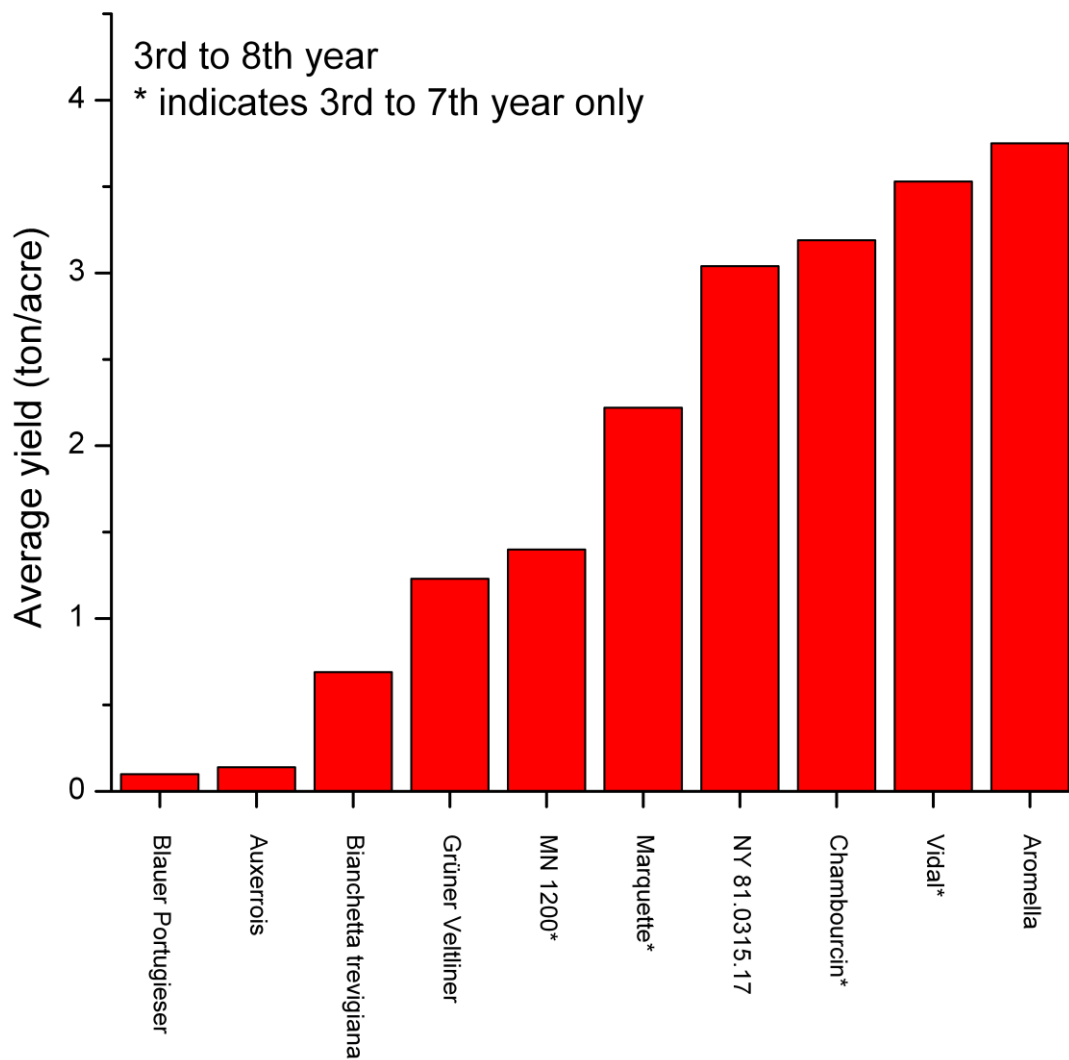
## 2010 – 2016 yields







## Six year average yield





## Summary

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Highest average yield after eight years (six crops) by Aromella, Vidal, Chambourcin and NY 81.0315.17 (>3.0 ton/acre), followed by Marquette (2.2 ton/acre).

Average yields of MN 1200 and all *Vitis vinifera* cultivars are <1.5 ton/acre.

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## Rogers Mesa 2008 grape variety trial

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

[CSU Viticulture page](#)

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# Questions?

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