



MN 1285, a New Grape Introduction

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Background

- New MN white wine grape (2016/2017)
- Frontenac Gris x MN1234
- Studying growth habits will help growers determine which trellis system and pruning method to use



Objective

Compare MN 1285 on trellis systems (VSP vs HC) and pruning methods (Spur vs Cane) to determine vine vigor by measuring shoot length



Methods

- Vines conditions kept equal (age, care, etc)
- Vine locations vary slightly
- Six average shoots chosen from each treatment
- Shoots measured and averaged once a week for six weeks



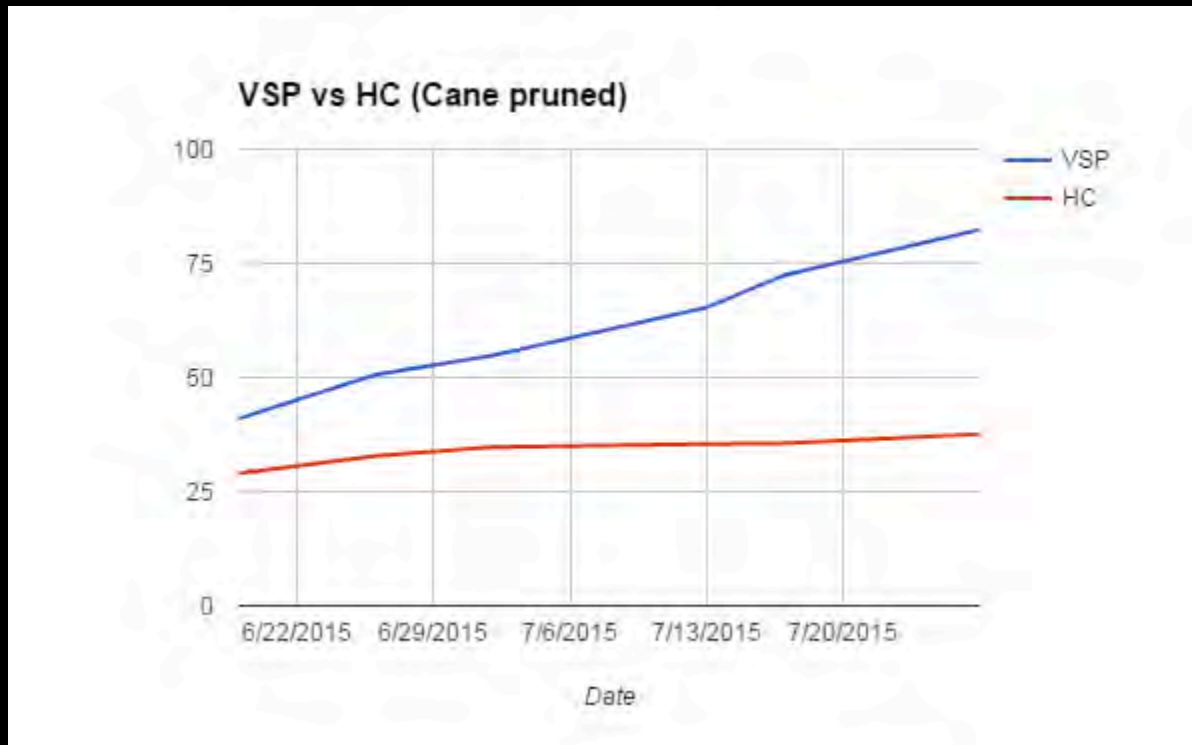
Vertical Shoot Position vs High Cordon

VSP



HC





MN 1285 compared on VSP and HC. Average shoot length recorded in inches for six weeks.

Conclusion of trellis systems

- VSP shoots grow to a longer length and for a longer time compared to HC
- This is likely because they naturally want to grow up to reach sunlight. HC directs the shoots downward de-vigorating them

Spur vs Cane

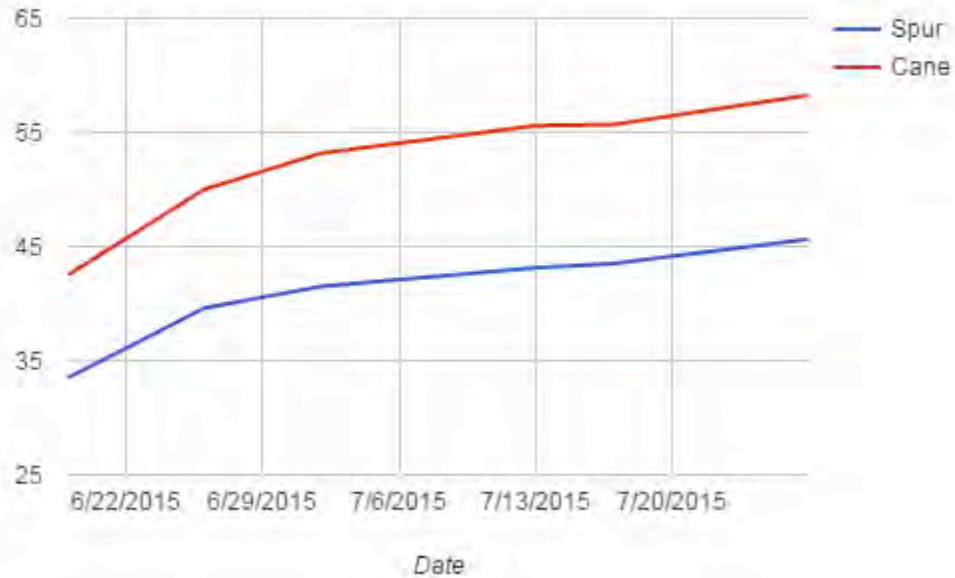
Spur



Cane



Spur vs Cane (High cordon)



MN 1285 compared on Spurs and Canes. Average shoot length recorded in inches for six weeks.

Conclusion of pruning methods

- Cane pruned shoots grow to a longer length, but stop growing at about the same rate as with spur pruned vines.
- This may be because of the higher number of shoots, where the vine has to distribute its sugars more widely.

Summary

- VSP resulted in more vigor than HC trellising
- Cane pruning resulted in more vigor than spur pruning
- As MN 1285 gets older and has a larger root system, it will become more vigorous. Promoting vigor is not needed in sites with fertile soil.
- A High Cordon system and Spur pruning will promote less vigor and is recommended for fertile sites.

Thank you

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