Growing Grapes in the North



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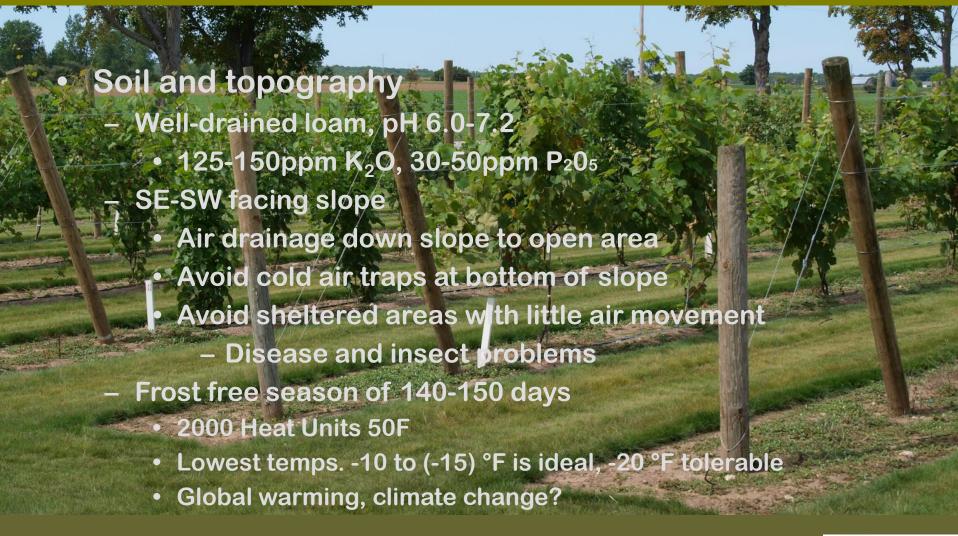


Answers for Questions





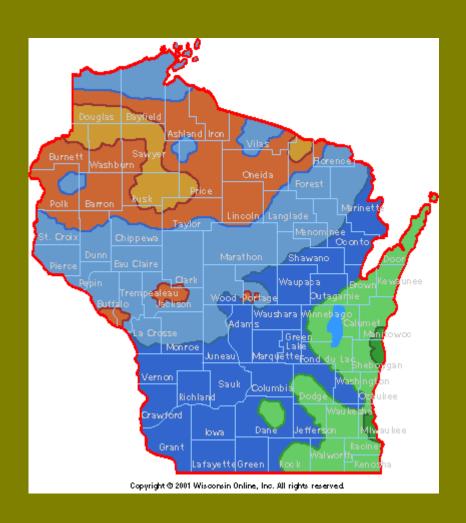
Site Selection





Plant Hardiness Zone

- Plant Hardiness Zone
 - 4a -25 to -30 °F
- 1700 GDD
- Growing Season
 - 51 to 106 days
- Last Spring Frost
 - June 16th
- First Fall Frost
 - September 2



Wine or Dine





Table Grape Varieties





Reliance



Einset



Canadice



Vanessa



Petite Jewel



Table Grape Varieties





Marquis



Himrod



Romulus



Table Grape Varieties





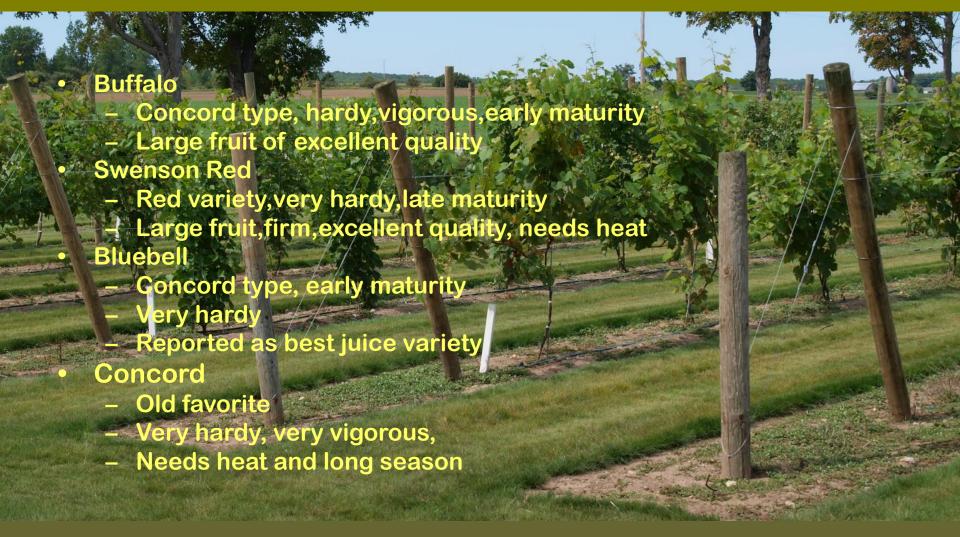
Mars



Trollhaugen

Very hardy vines of moderate vigor Early maturity before Mars Small, thin skinned slip skin berries Excellent mild Concord flavor for fresh market sales Very productive and reliable with good storage potential **Excellent for harsh winter conditions**

Seeded Varieties



Wine Varieties



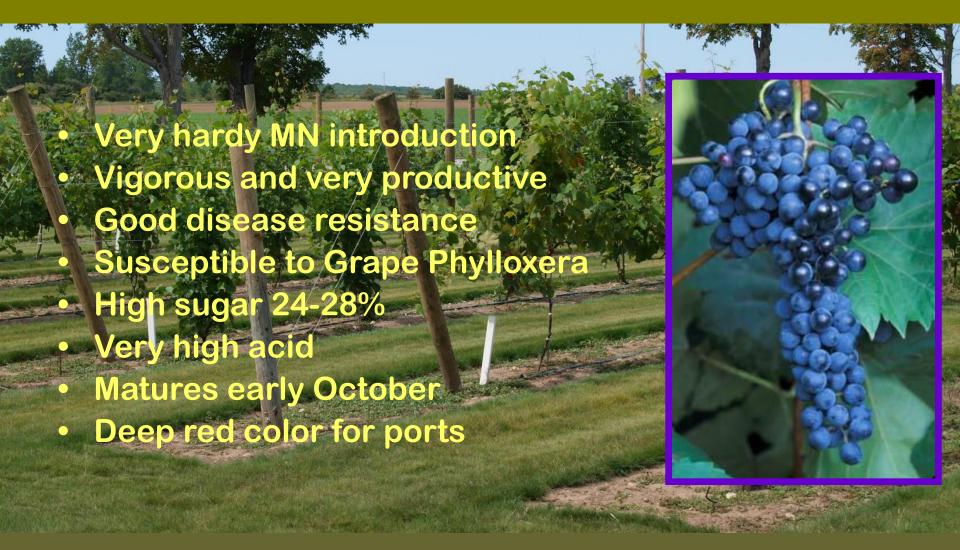
Marechal Foch



St. Croix



Frontenac





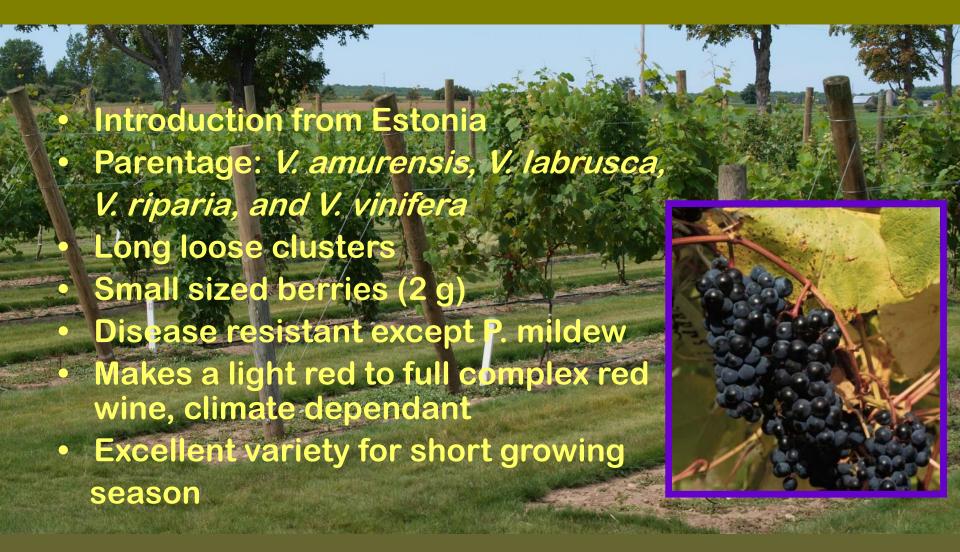
Leon Millot



Marquette



Baltica



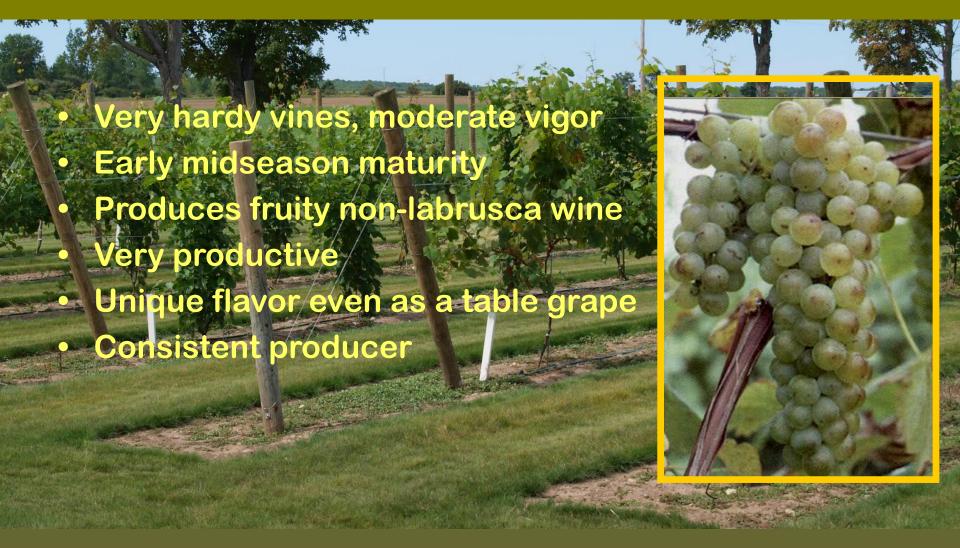
Petite Pearl



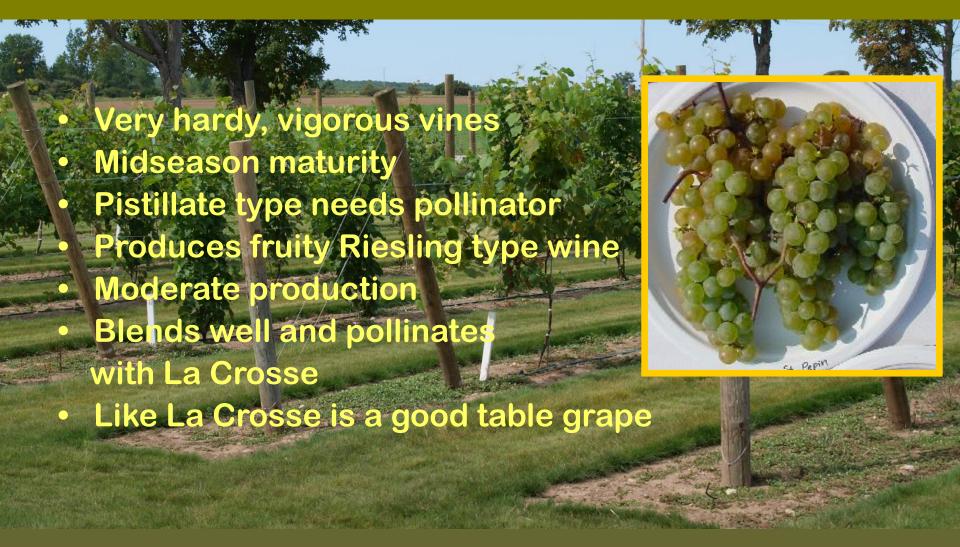
La Crescent



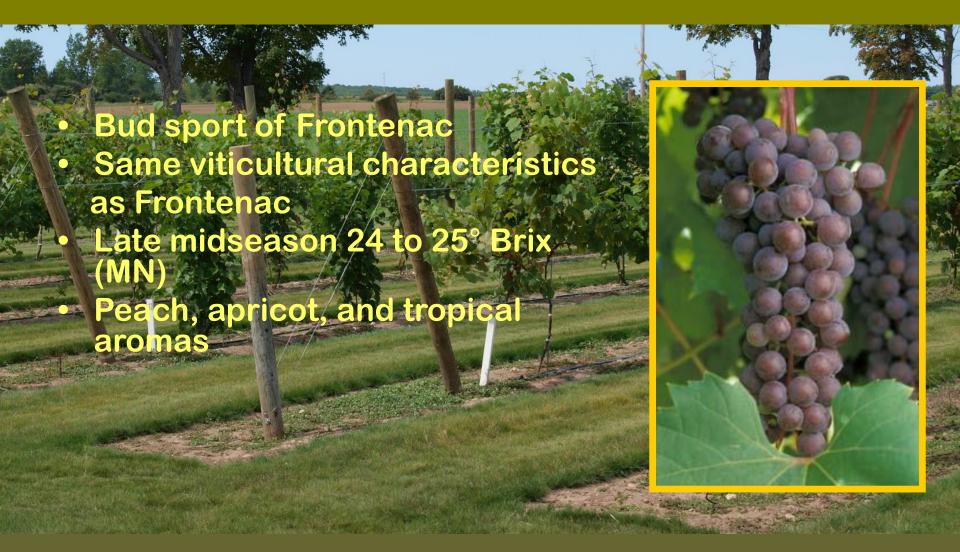
La Crosse



St. Pepin



Frontenac Gris



Planting

 Select N-S row or entation Spring plant into well tilled weed-free soil Row spacing greater than trellis height Plant spacing 6-8' apart Root prune vs. plant all roots - Excessively long roots cut back to 18" Prevent twisting and entangling of roots Avoid using an auger Plants pruned back to 2-3 expanding buds Best done after bud swell

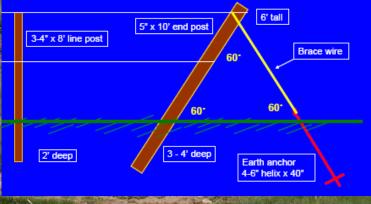


Trellis Construction

- Trellis responsible for vine + crop weight
 - Provides platform for pruning and training
 - Needs to function for 20-25yrs.?
 - Construct once and only once
- In place year one preferred
 - Wre available for initial shoot
 - Keep canes off of ground
- Training systems for trellis
 - Cane pruning
 - Spur(2-3 bud cane) pruning

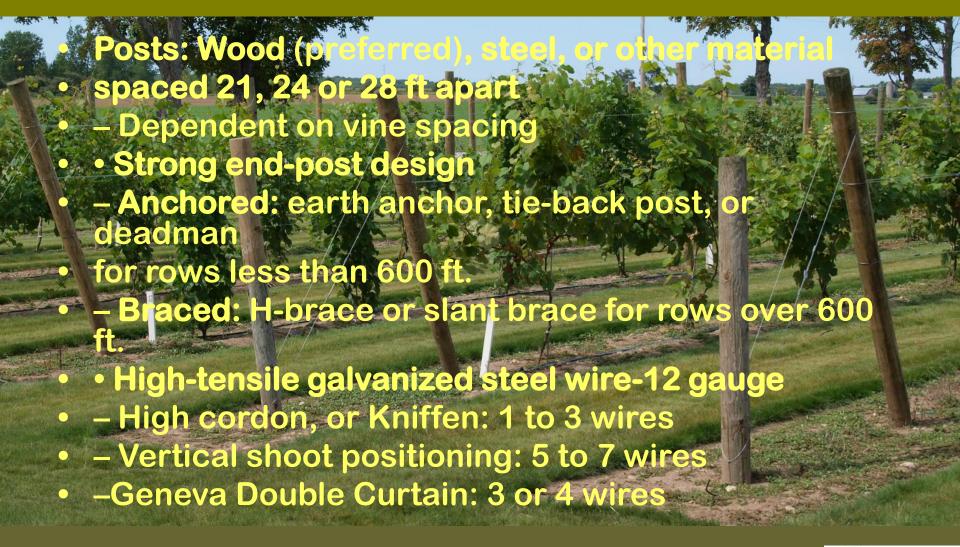
Anchored End Post System with an Earth Anchor

Suitable for rows up to 600 ft, but this is affected by soil texture and anchor's helix diameter.



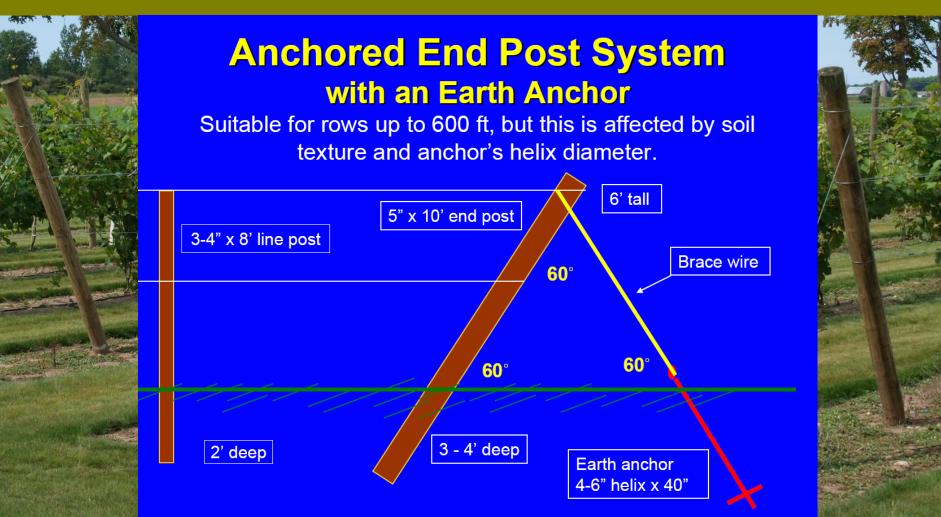


Major Trellis Components





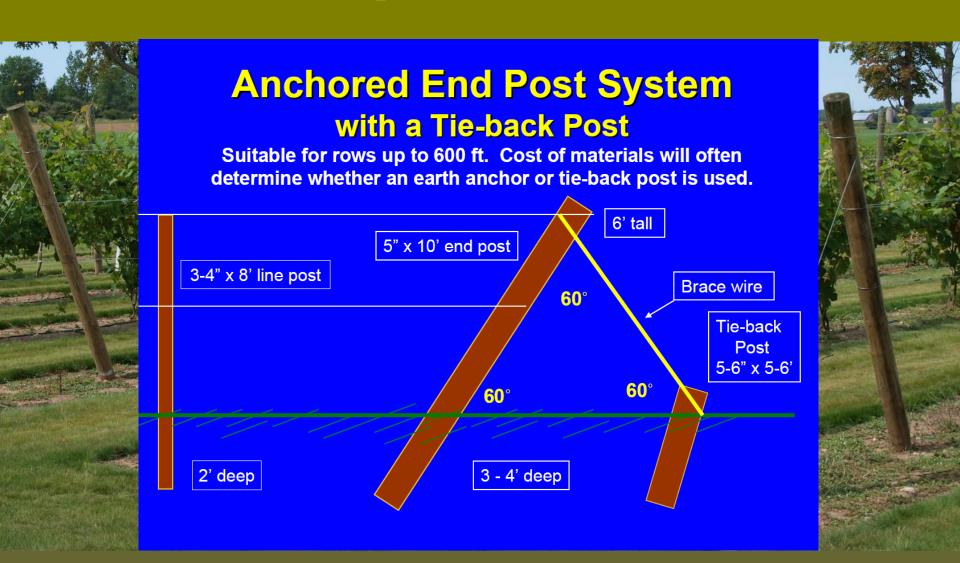
End Post





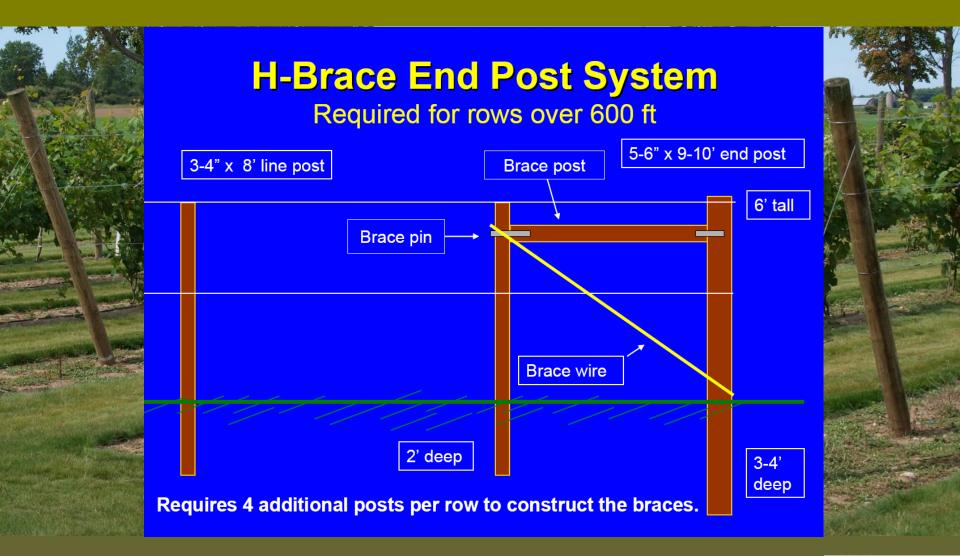


End Post



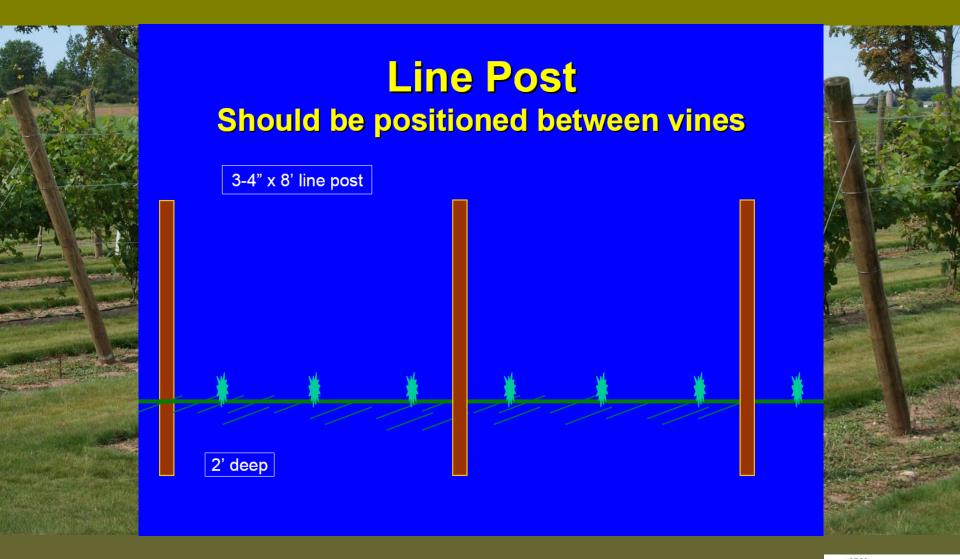


End Post





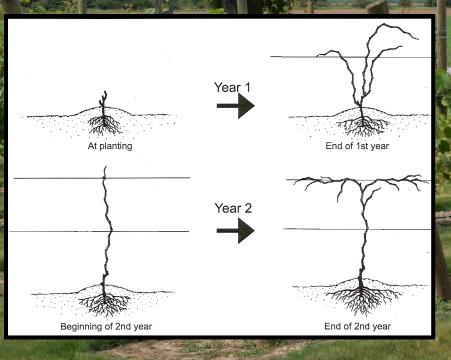
Line Post

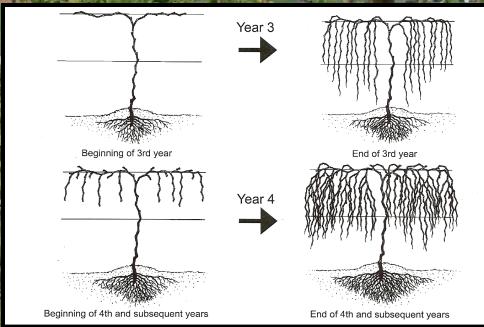




Pruning and Training

Initial Pruning from plan



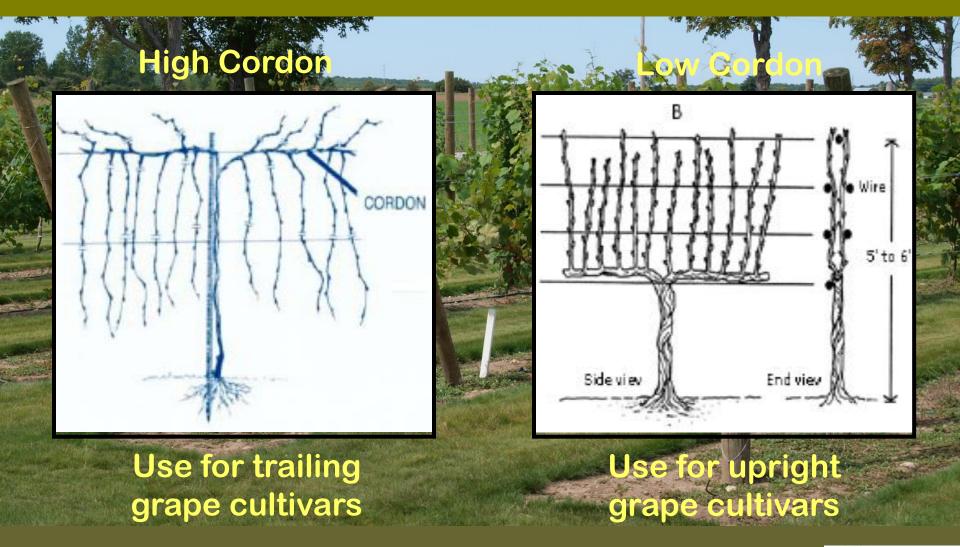


High Bi-Lateral Cordon

Relies on downward combing of new growth



Training Methods





Training Methods





Grape Pests





























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