Managing Non-bearing grapevines

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Outline

- Prior to planting
  - Site preparation
  - Fencing
  - Cultivar order
- Planting and establishing – grow tubes
- Irrigation
- Trellis
- Weed control
- Insect and disease control
- Pruning
Check Town and County Zoning Before Planting

- Town of Carlton, Kewaunee County, Wisconsin
  - Amended zoning in 1970’s on A-1 prime agricultural zones
  - Amendment prohibited the planting of trees, shrubs, vines on A-1 agricultural land
  - Permit required as well as Zoning permission from zoning board
Ordering Grapevines

- You should order vines for 2021 no later than July 2020
- Select reputable nursery
  - Protocol 2010
  - Trunk diseases, crown gall
  - Grafted versus ungrafted
- Store bareroot vines in cold room or heal vines into ground
Grow Tubes

- Protect vines from herbicide applications
- Remove in late August
- Store grow tubes and reuse
Pest Control

- Pests are the major limiting factor in grapevine establishment
  - Control weeds
  - Control Access of Deer to vineyard
  - Control phytophagous insects
    - Japanese beetles
    - Rose Chafer
    - Cutworms
Disease Control

- Manage diseases: Phomopsis, downy and powdery mildew, Black rot, Anthracnose
- Mancozeb is going to be the backbone of spray program in non-bearing vines
- In most cases, 50 GPA of water carrier should provide good coverage in year 1 and 2. Early season sprays ½ to 1-inch shoots to 10-12-inch shoots should be covered by 25 GPA of water carrier
- Do not use Strobilurins or DMI fungicides more than twice per season. You should not need to use these fungicides during grapevine establishment
Insect Control - Foliar Phylloxera

- If you select to grow a grape cultivar that is highly susceptible to foliar phylloxera then you will need to control foliar phylloxera
- Timing is the most important parameter to control foliar phylloxera
- Learn how to monitor for “crawlers”
- A number of insecticides are available
  - Movento – systemic, expensive
  - Danitol – RUP, broad spectrum
  - Others
Foliar Phylloxera
Pruning

- No pruning the first growing season
- Want to develop as much leaf area as possible
- Root development