Managing Non-bearing grapevines

DEAN S. VOLENBERG

VITICULTURE AND WINERY OPERATIONS EXTENSION SPECIALIST

Outline

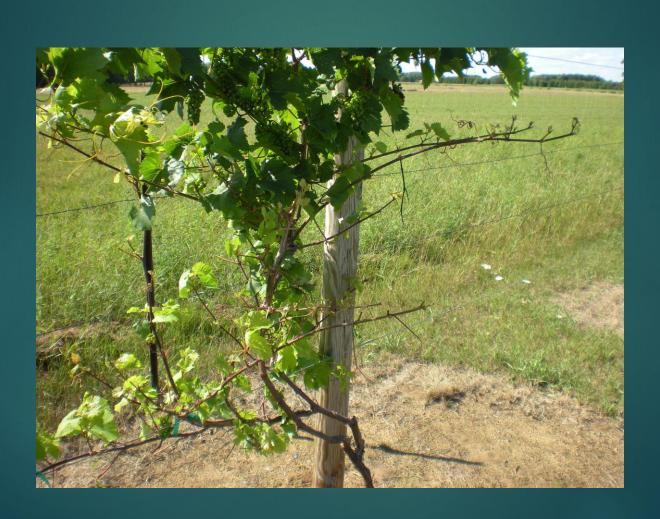
- Prior to planting
 - Site preparation
 - Fencing
 - Cultivar order
- Planting and establishing grow tubes
- Irrigation
- ▶ Trellis
- Weed control
- Insect and disease control
- Pruning

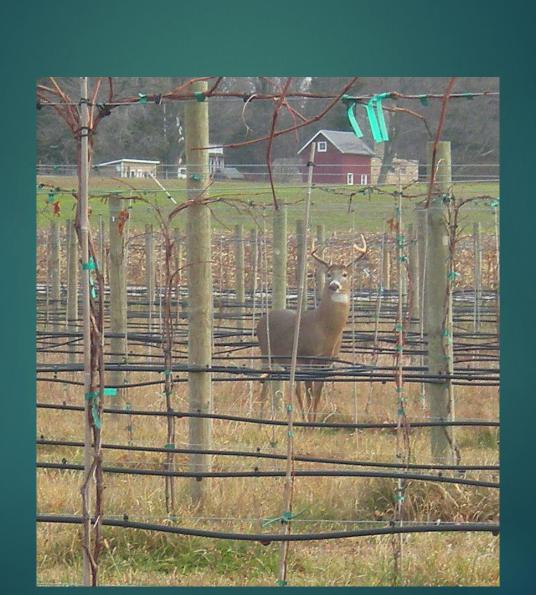
Check Town and County Zoning Before Planting

- 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 ar 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

