



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 heel 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

