**VITICULTURE MANAGEMENT**

**CULTURAL PRACTICES**
Viticultural practices optimize vineyard health, profitability, and sustainable practices. Efficient and effective viticultural practices are paramount for augmenting grapevine health and yield. Here are some key cultural practices that you should implement to maintain grapevine health and yield:

1. **Dormant Pruning**: Remove dead, diseased, and damaged canes and shoots. Pruning should be done before dormancy begins.
2. **Bud Swell**: Prune and thin the vine to control the number of buds. This helps in managing vine size and fruit load.
3. **Bud Break**: Remove any weak or diseased buds to ensure healthy growth.
4. **Prebloom**: Control the number of flowers to ensure strong fruit set.
5. **Bloom**: Apply fungicides to control diseases and pests. Avoid applying fertilizers during bloom.
6. **Fruit Set**: Monitor fruit development and adjust irrigation and nutrition as needed.
7. **BB-Sized Fruit**: Keep foliage healthy to support fruit development.
8. **PEA-SIZED FRUIT**: Continue monitoring for diseases and pests. Apply fungicides as needed.
9. **Berry Touch**: Adjust irrigation and nutrition to support berry growth.
10. **Bunch Closure**: Monitor fruit development and adjust irrigation and nutrition as needed.
11. **Veraison**: Allow grapes to mature naturally. Adjust irrigation and nutrition to support fruit ripening.
12. **Preharvest**: Continue monitoring for diseases and pests. Reduce irrigation to encourage fruit ripening.
13. **Harvest**: Harvest grapes at the optimal stage for quality and flavor.

**DISEASES**

- **Botryosphaeria Dothidea** (Bordeaux Disease): Fruits can be affected by grey mold. Monitor for signs of disease and apply fungicides as needed.
- **Crown Gall**: Remove infected nursery stock to prevent spread of disease.
- **Phomopsis**: Fruits can be affected by gray mold. Monitor for signs of disease and apply fungicides as needed.
- **Powdery Mildew**: Manage with fungicides. Avoid wetting the foliage during the day.

**INSECTS**

- **Mite**: Manage with insecticides or biological control. Monitor for signs of infestation and apply control measures as needed.
- **Thrips**: Manage with insecticides or biological control. Monitor for signs of infestation and apply control measures as needed.
- **Grape Berry Moth**: Manage with integrated pest management. Monitor for signs of infestation and apply control measures as needed.
- **Grape Root Borer**: Monitor for signs of infestation and apply control measures as needed.
- **Yellow Jacket**: Manage with biological control. Monitor for signs of infestation and apply control measures as needed.

**INTEGRATED PEST MANAGEMENT**
Integrated pest management in the vineyard combines a variety of techniques and tools to control pests. It requires correctly identifying and understanding its timing and activity within a grapevine throughout the season. Monitoring and evaluating the identified pest abundance and crop injury can help determine the correct method for effectively managing the pest.