

A large, woven wicker basket filled with a cluster of ripe, dark purple grapes. The basket is placed on a ground covered with wood chips or mulch. The background shows some green foliage, likely from a grapevine.

USDA/ARS-Industry Grape Research Workshop

Industry Research Priorities

Pierces Disease

Mealy Bugs

Fungal Wood Diseases

Mildews

Bunch rots

Viruses

Insects

Weeds

Nematodes

Vertebrates

Pesticide Technology

Nursery

Outreach/Tech Transfer

Industry Research Priorities

- **P.D. Management Strategy**
 - *Xylella fastidiosa*
 - **Vectors**
 - Blue Green Sharpshooter
 - Green Sharpshooter
 - Glassywinged Sharpshooter
 - Others
 - **Host Plants**

Industry Research Priorities

- **Mealy Bug Management Strategy**
 - **Vine Mealy Bug**
 - **Grape Mealy Bug**
 - **Obscure Mealy Bug**
 - **Ants**

Industry Research Priorities

➤ Fungal Wood Diseases

Eutypa

Phomopsis

Bot Canker

Cylindrocarpon

Phaeomoniella

➤ Mildews

Powdery Mildew

Downy Mildew

Air Quality

(Sulfur Dust)

Industry Research Priorities

- **Bunch rots**
 - **Botrytis**
 - **Sour Rot (Acetobacter)**
 - **Bitter Rot**
 - **Black Rot**
 - **Storage Rots**
- **Botrytis; Putrid, Split, Nodular of Raisins**

Industry Research Priorities

➤ Lepidoptera Larvae

Fruit

Omnivorous Leafroller

Orange Tortrix

Grape Leafroller

Grape Berry Moth

Indian Meal Moth

➤ Foliage

Cutworms, Armyworms

Western Grape Leaf Skeletonizer

Grape Root Borer

Phylloxera (aerial and root)

Industry Research Priorities

- **Thrips**

 - Western Flower
Grape**

- **Nematodes**

 - Rootknot**
 - Dagger**
 - Ring**
 - Citrus**

Industry Research Priorities

➤ Viruses

- Leaf Roll
- Fan Leaf
- Stem Pitting/Corky Bark
- Yellows
- Tomato Ring spot

➤ Weeds

➤ Vertebrates

Birds

Rodents

Deer

Coyotes

Industry Research Priorities

- **Pesticide Technology**
 - **Delivery system**
 - **Efficacies**
 - **Environmentally Friendly, Biocontrol**
 - **New Materials**
- **Nursery**
 - **Identification and cleanup of Diseases (Methods)**
 - **Indexing procedures**
 - **Develop resistance**
- **Extension, Outreach, and Tech Transfer**