Seedless Table Grape Trials

Five Year Trial Data:

- Cultivar performance
- Overall performance
- Ripening sequence
- Cluster weights
- Winter hardiness
- New selection 2011

Judith Reith-Rozelle
Assistant Superintendent
West Madison Agricultural Research Station
Seedless Table Grape Varieties

**Reds**
- Canadice
- Einset
- Reliance
- Somerset Seedless
- Vanessa

**Blues**
- Mars
- Trollhaugen
- Venus
- Reliance

**Whites**
- Himrod
- Interlaken
- Lakemont
- Marquis

Photos: UW – Madison, West Madison Agricultural Research Station Staff
Canadice

- Fruit, rose colored, red, mid-size, sweet, complex, spicy taste, 20 brix when ripe
- Good resistance to downy mildew/powdery mildew
- Mid-season harvest, held well on vine – 9/1 - 10/10, good storage potential
- Clusters 0.480 lbs. Average vine 17.87 lbs.
- Vines medium vigor
- Medium winter hardiness, good management of fruit load, increases winter hardiness
Einset

- Fruit light, rose of med-size, very spicy, fruity, clear, clean taste, 20 to 21 brix when ripe
- Good resistance to downy mildew/powdery mildew
- Early harvest, held well on vine – 8/29 - 10/1, good storage potential
- Clusters 0.338 lbs., average vine 13.12 lbs.
- Vines vigorous, slow to develop
- Excellent winter hardiness, good management of vines and fruit load
Reliance

- Fruit soft rose with blush of green, very beautiful, complex flavors, ripe at 18 to 19 brix, brix at first harvest 18.5, problem with uniform ripening
- Good resistance to downy and powdery mildew, easily controlled with sprays
- Mid/late season harvest; held well on vine – 9/14 – 10/1
- Clusters 0.588 lbs., average vine 25.32 lbs.
- Vines very vigorous
- Excellent winter hardiness
Somerset Seedless

- Fruit rose colored, very complex flavor and quite sweet, ripe at 19.5 to 20.0 brix
- Good resistance to downy and powdery mildew, any outbreaks controlled by sprays
- Early season harvest, first to ripen, eight weeks of harvest – 8/25 – 9/16
- Clusters 0.262 lbs., average 27.91 lbs.
- Vines very vigorous – needs to be on high cordon
- Excellent winter hardiness
Vanessa

- Fruit deep rose, red, with very spicy, complex, sweet taste, 20 brix
- Susceptibility to downy mildew low, powdery mildew medium, sprays control outbreaks
- Early season harvest, right after Somerset, eight weeks of harvest 8/25 - 9/19, good storage
- Clusters 0.342 lbs., average 16.77 lbs.
- Vines medium vigor
- Medium winter hardiness – Excellent with good vine management
Himrod

- Fruit clear green/white, without blush, sweet, clear taste of “green grape”, 21 to 22 brix when ripe
- Good resistance to downy mildew, susceptible to powdery mildew, sprays control outbreaks easily
- Early harvest, 4 week harvest, excellent storage
- Clusters 0.285 lbs., average 14.00 lbs.
- Vines vigorous
- Excellent winter hardiness
Interlaken

- Fruit deep green, very sweet with undertones of spices and a little ginger, ripe at 20 to 21 brix
- Good downy mildew resistance, very low susceptibility to powdery mildew, sprays control outbreaks easily
- Mid-season harvest, held well on vine 9/1 - 10/10, good storage potential
- Clusters 0.325 lbs., average 13.03 lbs.
- Vines medium vigor
- Medium winter hardiness
Lakemont

- Fruit green with no blush, very sweet when fully ripe at 21 brix
- Good downy mildew resistance, very low susceptibility to powdery mildew, sprays control any outbreaks;
- Mid-season harvest, held well on vine 9/8 – 10/10, good storage potential
- Clusters 0.359 lbs., average 14.12 lbs.
- Vines medium vigor
- Medium winter hardiness
Marquis

- Fruit deep green, with light, sweet taste, and spicy undertones, fully ripe at 16 to 17 brix
- Medium susceptibility to downy and powdery mildew, controlled with sprays
- Late season harvest, short season harvest 9/14 - 9/16
- Clusters 0.340 lbs., average 19.03 lbs.
- Vines Medium vigor
- Excellent winter hardiness
Mars

- Fruit deep purple, a bit astringent, clear fruity taste; ripe at 15 to 17 brix
- Susceptible to downy mildew and powdery mildew, sprays control outbreaks
- Mid/late season harvest
- Cluster 0.475 lbs., trouble with ripening, manage fruit load, average 38.13 lbs.
- Vines very vigorous, high cordon
- Excellent wintery hardiness
Trollhaugen

- Deep purple, spicy, complex taste and very crisp, ripe at 19 to 21 brix
- Susceptible to downy and powdery mildew, controlled with sprays
- Early season harvest, right after Somerset, good storage potential
- Clusters .229 lb., held well on vine 8/29 – 9/19, average 23.62 lbs., good storage potential
- Vines medium vigor
- Excellent winter hardiness
Venus

- Deep purple, spicy, complex taste and very crisp, ripe at 19 to 21 brix, seed remnant
- Susceptible to downy and powdery mildew, controlled with sprays
- Early season harvest, right after Somerset, good storage potential
- Clusters .229 lb., harvest period 9/9 – 10/1, average 1.85 lbs. good storage potential
- Vines medium vigor
- Medium/Excellent winter hardiness
# Ripening Sequence - Brix

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<tr>
<th>Table # 5</th>
<th>8/25</th>
<th>8/29</th>
<th>9/1</th>
<th>9/8</th>
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- Taste test - ripe
- Extended Harvest
Standard Sizing for Fresh Market – Seedless Table Grapes

- **All varieties excluding small-berry varieties**
  - **Cluster weight/g**
    - Extra Class
    - Class I
    - Class II

- **Small-berry varieties**
  - **Cluster weight/g**
    - Extra Class
    - Class I
    - Class II
Seedless Table Grape Trials

2011 New Cultivars:

- ES6-4-47 (Montreal Blue) - Swenson
- Suffolk Red – Red - New York
- Jupiter – Blue - Arkansas
- Thomcord – Blue

Judith Reith-Rozelle
Assistant Superintendent
West Madison Agricultural Research Station
Ratings for Seedless Table Grape Cultivars for Wisconsin

<table>
<thead>
<tr>
<th>Excellent Winter Hardiness</th>
<th>Medium Winter Hardiness *</th>
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<tbody>
<tr>
<td><strong>Red</strong></td>
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<tr>
<td>- Einset</td>
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<td>- Trollhaugen</td>
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<tr>
<td><strong>White</strong></td>
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<tr>
<td>- Marquis</td>
<td>- Lakemont</td>
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</table>

*Have over-wintered four seasons and produce marketable fruit the last two summers, with careful vine and fruit load management.
Seedless Table Grape Trials Support
2007 - 2011

- Wisconsin Department of Agriculture, Agricultural Development & Diversification Program (ADD) – 2007 - 2009
- Wisconsin Grape Growers Association - New Grant for – 2010 -2011
- Wollersheim Winery – staff training/financial
- University of Wisconsin – Madison, College of Agricultural and Life Sciences
- University of Wisconsin – Madison, Cooperative Extension
Seedless Table Grape Trials Report
2007 - 2011

Wisconsin Grape Growers Association web site:
http://wigrapes.org

University of Wisconsin – Madison
http://universitydisplaygardens.com

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