Other Attributes

- Cold hardiness
  - Demonstrated in Edmonton planting
- Fireblight resistance
  - Orchard (OHIO) and lab evidence
“Three Canadian rootstocks in the trials also showed strong survival rates. These included Ottawa 3, Vineland 1, and Vineland 3."

## Summary of the characteristic and availability of the Vineland Apple Rootstocks

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>V.1</th>
<th>V.2</th>
<th>V.3</th>
<th>V.4</th>
<th>V.5</th>
<th>V.6</th>
<th>V.7</th>
<th>Will not be commercialized</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tree Vigor</td>
<td></td>
<td></td>
<td></td>
<td>M.7</td>
<td>M.9E</td>
<td>M.9E</td>
<td>M.26</td>
<td>MM.106-MM.111 Size</td>
</tr>
<tr>
<td>Availability</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Not</td>
<td>Not</td>
<td>Not</td>
<td>Not available</td>
</tr>
<tr>
<td>Cameroon Nurseries (cameronnursery.com)</td>
<td>Not commercially available</td>
<td>DNA Gardens, Elnora, Alberta (dnagardens.com)</td>
<td>Not commercially available</td>
<td>Not commercially available</td>
<td>Not commercially available</td>
<td>Not commercially available</td>
<td>Not commercially available</td>
<td></td>
</tr>
<tr>
<td>Yield Performance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>Similar to M.26</td>
</tr>
<tr>
<td>Yield Efficiency</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>Better than M.26</td>
</tr>
<tr>
<td>Features</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>Cold Hardy, displays fireblight resistant</td>
</tr>
<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

NA = not available (rootstock has not been tested)
Availability

- Commercial development by the University of Guelph and the Ontario Ministry of Agriculture.
- ‘V.1’, ‘V.2’ and ‘V.3’ have been licensed
- More information is required to determine the suitability of commercializing ‘V.5’, ‘V.6’, and ‘V.7’.
- ‘V.2’ has been commercially released but has been difficult to propagate in the nursery, therefore it may have limited availability.
- ‘V.4’ will not be commercialized.
Further Information

- Contact the author (John Cline, Univ of Guelph)
- Dr. Stephen Bowley, Business Development Office, University of Guelph
  (www.uoguelph.ca/research/bdo/)
  Tel: (519) 824-4120 Ext 58704
Welcome to the NC-140 Regional Rootstock Research Project. The goal of these pages is to disseminate research information generated by pome fruit rootstock research projects throughout North America that are part of the NC-140 Regional Research Project. Additionally, the site offers NC-140 researcher and...
Current Plantings

2002 Peach Rootstock Trial (Scott Johnson)

2002 Apple Rootstock Trial (Wes Autio)

2001 Peach Rootstock Trial (Greg Reighard)

1999 Dwarf Apple Rootstock Trial (Wes Autio)

1999 Semi-dwarf Apple Rootstock Trial (Wes Autio)

1998 Cherry Rootstock Trial

- NC-140 Cherry Rootstock Pages
- Preliminary Performance of Hedelfingen Cherry on Ten Rootstocks in the 1998 NC-140 Cherry Rootstock Trial
- Preliminary Performance of Montmorency Cherry on Eleven Rootstocks in the 1998 NC-140 Trial

1998 G.16 Apple Rootstock Trial (Terence Robinson)

1994 Peach Rootstock Trial (Greg Reighard)

1994 Gala Dwarf Apple Rootstock Trial (Rich Marini)

1994 Gala Semi-dwarf Apple Rootstock Trial (Rich Marini)