ROOTSTOCK

Characteristic list of Rootstock for Watermelon

Crop: White flowered bottle gourd seeds (Lagenaria)
Type: Rootstock for Watermelon

Original hybrid varieties, specially developed as Rootstock only for Watermelon. Strengthen vigor of grafted plant and very effective for high quality fruits. Sweeter Fruit result than without rootstock.

WM-1

Characteristic
- Strong roots and early growth of seedling,
- easy to graft and high compatibility with grafted plant
- Keep strong vigor of grafted plant, support very long term harvesting
- Good adaptability with both high and low temperature
- Tolerant to general soil disease, Fusarium

WM-2

Characteristic
- Strong roots and early growth of seedling,
- easy to graft and high compatibility with grafted plant
- Keep strong vigor of grafted plant,
- support long term harvesting
- Effective for good quality fruits with high sugar concentration
- Good adaptability with both high and low temperature, dry and wet season
- High tolerant to general soil disease, Fusarium

WM-3

Characteristic
- Strong roots and early growth of seedling,
- easy to graft and high compatibility with grafted plant
- High fruiting ratio of good quality fruits with high sugar concentration
- Suitable for high temperature, dry and wet season
- High tolerant to general soil disease, Fusarium
**HS-1 “KURUME SHINTOSA”**

**Characteristic**
- Re-developed "NEW Shintosa" type variety
- Hybrid of "Maxima x Moschata"
- This original hybrid variety, developed especially as only for Rootstock
- Plant growth is vigorous as general "Shintosa", together with high ratio of fruiting at the same time
- Strong hypocotyl, easy grafting
- Good tolerant to general soil disease, especially strong to Fusarium
- High compatibility with Watermelon, Cucumber and other Cucurbit crops and season, especially for high temperature
- Keep good performance of grafted plant under severe planting condition

**Comparison chart**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>WM-3 ≤ WM-2 = WM-1 ≤ SHINTOSA</th>
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<tbody>
<tr>
<td>Size of seed</td>
<td></td>
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<tr>
<td>Amount of root</td>
<td></td>
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<tr>
<td>Thickness of stem</td>
<td></td>
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<tr>
<td>Adaptability to high temperature</td>
<td>WM-1 = WM-2 ≤ WM-3 ≤ SHINTOSA</td>
</tr>
<tr>
<td>Adaptability to low temperature</td>
<td>SHINTOSA ≤ WM-3 ≤ WM-1 = WM-2</td>
</tr>
<tr>
<td>Plant vigor</td>
<td>WM-3 ≤ WM-2 &lt; WM-1 = SHINTOSA</td>
</tr>
<tr>
<td>Earlier fruiting</td>
<td>SHINTOSA ≤ WM-1 ≤ WM-2 = WM-3</td>
</tr>
<tr>
<td>Fruit size</td>
<td>WM-2 = WM-3 ≤ WM-1 ≤ SHINTOSA</td>
</tr>
<tr>
<td>Stable fruiting</td>
<td>SHINTOSA ≤ WM-1 ≤ WM-2 ≤ WM-3</td>
</tr>
<tr>
<td>Disease resistance</td>
<td>SHINTOSA ≤ WM-1 ≤ WM-2 ≤ WM-3</td>
</tr>
<tr>
<td>Sweetness of Fruit</td>
<td>SHINTOSA &lt; WM-1 = WM-2 = WM-3</td>
</tr>
</tbody>
</table>

**ROOTSTOCK**

**Characteristic list of Rootstock for Watermelon**
- Crop: Pumpkin seed
- Type: Rootstock for Watermelon, Cucumber and other Cucurbit