ROOTSTOCK

Characteristic of Rootstock for Cucumber

Crop: Pumpkin
Type: Rootstock for Cucumber

Longer shelf-life than grafted with general “Shintosa”.
It is calmer vigor than general “Shintosa”

TYPE-U

Characteristic

- Very vigorous and uniform growing, longer term harvesting
- High compatibility with grafted plant
- Hypocotyl is strong and easy to graft
- High tolerant to DM and general soil disease, and Fusarium
- Strong adaptability with high temperature and dry condition

TYPE-D

Characteristic

- Very vigorous and uniform growing, effective performance for earlier harvesting
- High compatibility with grafted plant
- Hypocotyl is strong and easy to graft
- High tolerant to DM and general soil disease, and Fusarium
- Strong adaptability with both high and cold temperature

TYPE-E

Characteristic

- Uniform and stable growing, keep vigor in long period
- High compatibility with grafted plant
- Hypocotyl is strong and easy to graft
- High tolerant to DM and general soil disease, and Fusarium
- Good adaptability with any season

TYPE-A

Characteristic

- Excellent vigor in later period, suitable for very long harvesting
- High compatibility with grafted plant
- High tolerant to PM and DM and general soil disease, and Fusarium
- Stable growing in any season and excellent performance in cold season
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>TYPE-A ≤ TYPE-U = TYPE-D ≤ TYPE-E ≤ SHINTOSA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size of seed</td>
<td>TYPE-A &lt; TYPE-D = TYPE-E &lt; TYPE-U ≤ SHINTOSA</td>
</tr>
<tr>
<td>Amount of root</td>
<td>TYPE-A &lt; TYPE-D = TYPE-E &lt; TYPE-U ≤ SHINTOSA</td>
</tr>
<tr>
<td>Thickness of stem</td>
<td>TYPE-A &lt; TYPE-D = TYPE-E &lt; TYPE-U ≤ SHINTOSA</td>
</tr>
<tr>
<td>Adaptability to high temperature</td>
<td>TYPE-A = TYPE-E &lt; TYPE-D ≤ TYPE-U ≤ SHINTOSA</td>
</tr>
<tr>
<td>Adaptability to low temperature</td>
<td>SHINTOSA &lt; TYPE-U &lt; TYPE-D = TYPE-E &lt; TYPE-A</td>
</tr>
<tr>
<td>Plant vigor in earlier stage</td>
<td>TYPE-A &lt; TYPE-E &lt; TYPE-D = TYPE-U ≤ SHINTOSA</td>
</tr>
<tr>
<td>Plant vigor in later stage</td>
<td>SHINTOSA ≤ TYPE-D = TYPE-E = TYPE-U &lt; TYPE-A</td>
</tr>
<tr>
<td>Harvesting period</td>
<td>SHINTOSA ≤ TYPE-D = TYPE-E = TYPE-U &lt; TYPE-A</td>
</tr>
<tr>
<td>Disease resistance</td>
<td>SHINTOSA &lt; TYPE-U = TYPE-D = TYPE-E = TYPE-A</td>
</tr>
</tbody>
</table>

**Scion Vigor**

- SHINTOSA
- TYPE-A
- TYPE-E.D.U

**Beginning**

**Last**