Commercial Clonal Rootstocks
In California

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Clonal vs Seedling Trees
Uniform Characteristics

- Phytophthora cinnamomi Tolerance
Uniform Characteristics

- Phytophthora cinnamomi Tolerance
- Tree Uniformity
Uniform Characteristics

- Phytophthora cinnamomi Tolerance
- Tree Uniformity
- Fruit Productivity
Cumulative Revenue Difference Clonal vs Seedling Rootstock

Revenue in dollars:
- $100.00
- $80.00
- $60.00
- $40.00
- $20.00
- $0.00
- ($20.00)
- ($40.00)

Planting periods:
- Plant
- 2
- 4
- 6
Uniform Characteristics

- Phytophthora cinnamomi Tolerance
- Tree Uniformity
- Fruit Productivity
- Salinity Tolerance/Resistance
Uniform Characteristics

- Phytophthora cinnamomi Tolerance
- Tree Uniformity
- Fruit Productivity
- Salinity Tolerance/Resistance
- Iron Chlorosis Resistance
Uniform Characteristics

- Phytophthora cinnamommi Tolerance
- Tree Uniformity
- Fruit Productivity
- Salinity Tolerance/Resistance
- Iron Chlorosis Resistance
- Resistance to Other Fungal Diseases
Uniform Characteristics

- Phytophthora cinnamomi Tolerance
- Tree Uniformity
- Fruit Productivity
- Salinity Tolerance/Resistance
- Iron Chlorosis Resistance
- Resistance to Other Fungal Diseases
- Absorption of Nutrients
Isolated Replants and Irregular Care
Clonal vs Seedling Structure
Clonal vs Seedling Structure
Clonal vs Seedling Structure
Integrated Disease Control

Five principal factors:

1. Nursery practice
2. Cultural practice
3. Clonal rootstocks
4. Biological control
5. Chemical control
Integrated Disease Control

Five principal factors:

1. Nursery practice
2. Cultural practice
3. Clonal rootstocks
4. Biological control
5. Chemical control
Cultural practices, Biological control, Chemical control
Cultural practices, Biological control, Chemical control
Commercial Clonal Rootstocks

Cultural practices, Biological control, Chemical control
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Cultural practices, Biological control, Chemical control
Cultural practices, Biological control, Chemical control
Cultural practices, Biological control, Chemical control
Duke 7

Production
Vigor
Salinity
P. citricola
Root Rot

Root Rot
Commercial Clonal Rootstocks

Toro Canyon

Root Rot Production
Salinity
Vigor
Root Mass
P. citricola

Root Rot
Commercial Clonal Rootstocks

Borchard

- Iron
- Chlorosis
- Production
- Vigor
- Salinity

- Root Rot
- Large Tree Size
Commercial Clonal Rootstocks

G755

Root Rot Vigor

Production
Cold
Salinity
P. citricola
Commercial Clonal Rootstocks

Thomas

Root Rot
Vigor

Salinity
Production
Dothiorella
Large Tree
Size
Commercial Clonal Rootstocks

Dusa

Root Rot Production Salinity Vigor

Poor Aeration Chlorosis
Latas

Root Rot
Salinity
Production

Poor
Aeration
Chlorosis
Commercial Clonal Rootstocks