

Performance of Six Peach Rootstocks in a Bacterial Canker Replant Site

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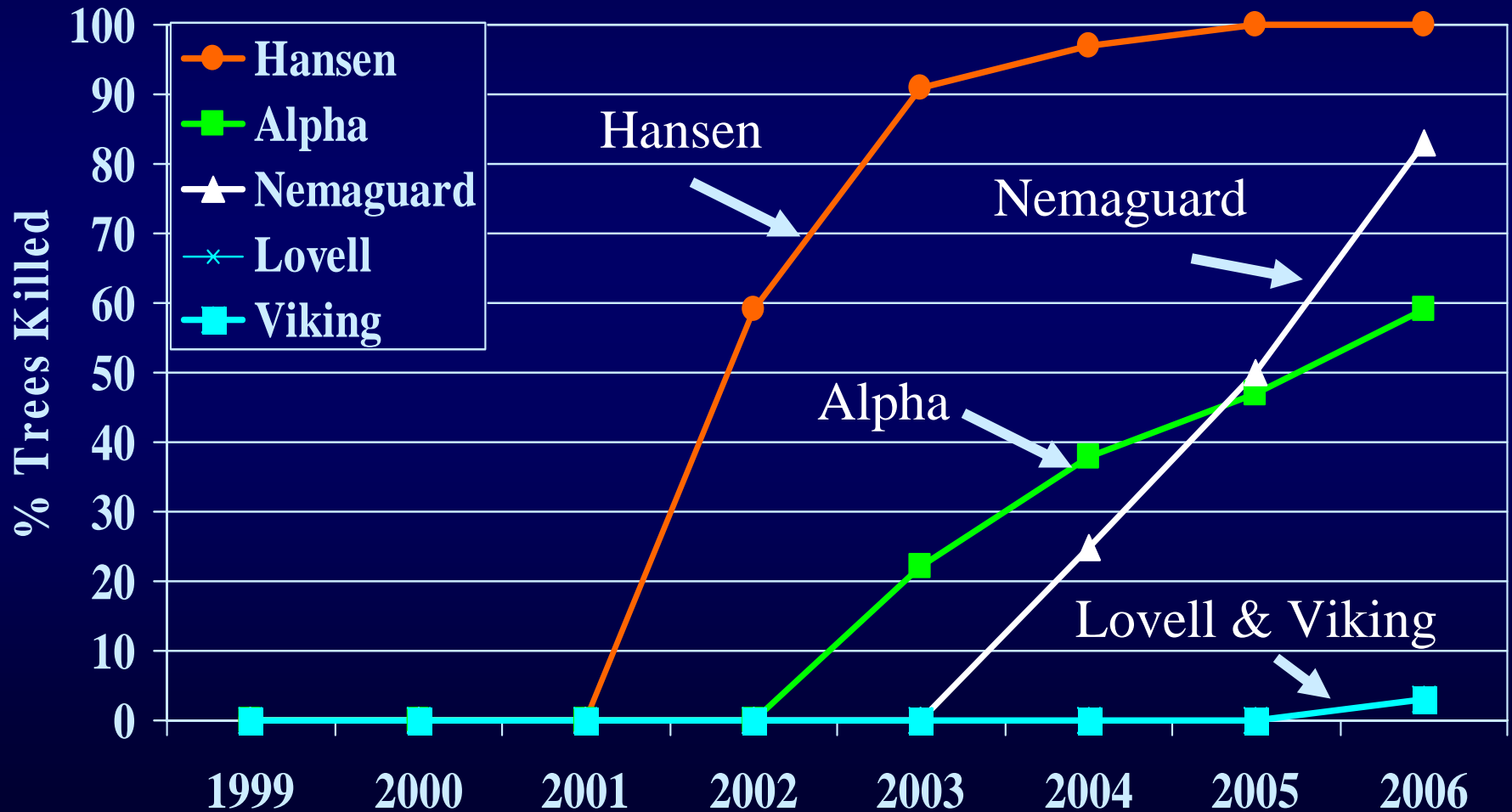
Riegel Rootstock Trial

Superior Fruit Ranch. Planted 1999

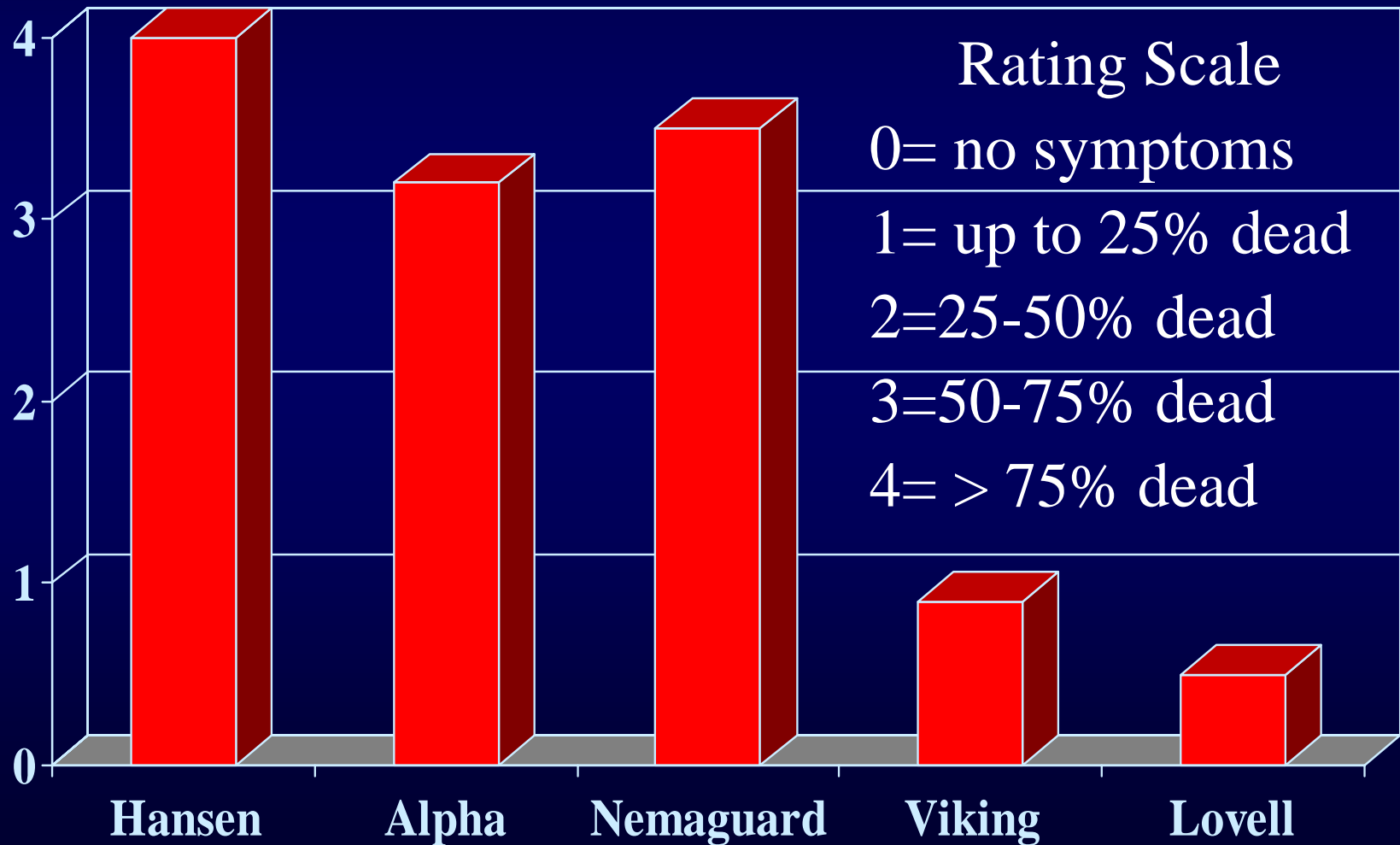
Rootstocks include:

- Lovell (peach)
- Nemaguard (peach)
- Deep Purple (plum)
- Hansen 536 (peach / almond hybrid)
- Alpha (peach / almond hybrid)
- Viking (peach / almond / plum / apricot hybrid)

Rootstocks for Peach (cv. Reigel) Killed by Bacterial Canker Planted 1999

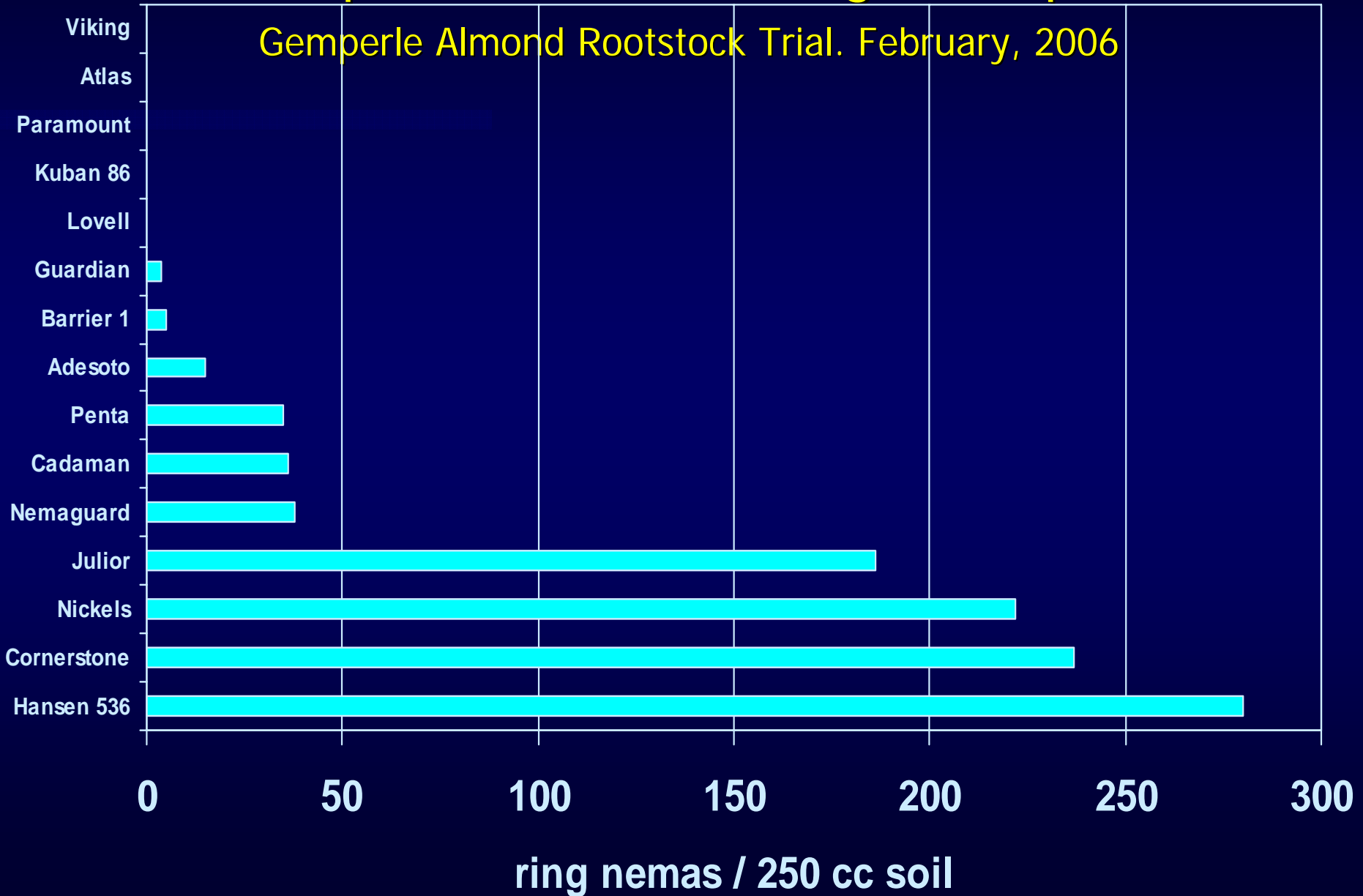


Bacterial Canker Severity Rating for Peach Rootstocks. April 2006.



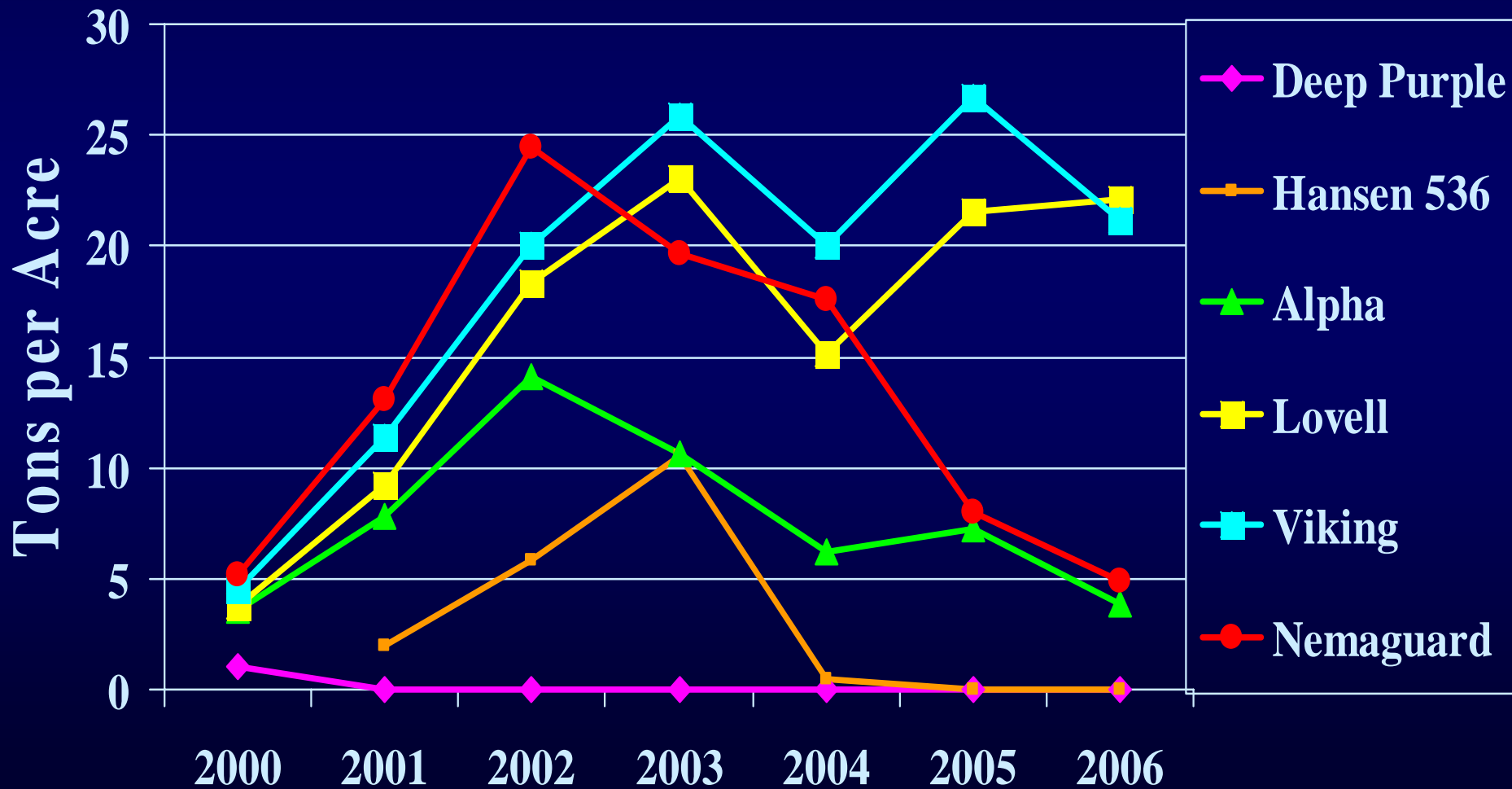
Ring nematode numbers on three-year-old almond rootstocks planted in an unfumigated replant site.

Gemperle Almond Rootstock Trial. February, 2006



Yield Dynamics of Riegel Cling Peach on Various Rootstocks

Tons per Acre, Including Dead / Missing Trees



Rootstock Effect on Fruit Size and Firmness

Riegel Cling Peach, August 2006

	Avg. Diameter (mm)	Avg. Firmness (psi)
Nemaguard	78.4	5.8
Viking	77.2	6.2
Lovell	73.5	6.6
Alpha	72.6	7.1

Red ring = 57.1 mm; yellow ring = 60.33 mm

Riegel Rootstock Trial

Conclusions

- Nemaguard had the highest early yields until affected by bacterial canker
- One tree each on Lovell and Viking died from bacterial canker in 2006 (first time).
- Viking looked a little more “cankery” than Lovell early in the year but looked better by year’s end.
- Viking out-yielded Lovell until 2006.

The Influence of Rootstock on Fruit Nutrient Levels

	N (%)	Ca (%)	B (ppm)
Lovell	0.87	0.04	58
Viking	0.94	0.04	76
Alpha	0.90	0.04	48