

## Book update September 2008

Correction to table on page 36

**Table 7** Updated rating of grapevine rootstocks to *Meloidogyne* spp. 1103 Paulsen is now rated as having low tolerance to root knot nematodes.

Nematode Resistance				
Rootstock	Root-knot ( <i>Meloidogyne</i> spp.)	Citrus ( <i>Tylenchulus semipenetrans</i> )	Root lesion ( <i>Pratylenchus</i> spp.)	Dagger ( <i>Xiphinema</i> spp.)
Ramsey	High	High	High	Low
Schwarzmann	High	High	Low	High
101-14	High	Low	Low	Low-Moderate
5C Teleki	Moderate	Low	Moderate	Low
5BB Kober	High	Low	Low	Low
S04	Moderate-High	Low	Moderate	Low
1103 Paulsen	Low	Moderate	Moderate	Low
110 Richter	Moderate	Moderate	Low	Low
99 Richter	Moderate-High	Low	Low	Low
140 Ruggeri	High	-	Low	Low
3309C	Low	Low	Moderate	Moderate
420A	Moderate	Low	Low	Low

### Explanation

Recent observations in some sites within South Australia have indicated that when 1103 Paulsen is challenged by heavy infestations of root-knot nematodes (RKN) it is not performing to expectation with regard to nematode resistance.

As a result, and in keeping with literature from the northern hemisphere, the tolerance rating of 1103 Paulsen to root knot nematode species has been downgraded from a rootstock with “moderate to high” root knot nematode tolerance to one with “low” tolerance.

Further to this, the degree of resistance of 1103 Paulsen may be modified by field conditions e.g. soil fertility and irrigation practices, previous cropping history, clonal differences in rootstocks or variation in virulence of nematode species (Loubser and Meyer 1987, Andrew Walker pers comm). This may explain why 1103 Paulsen has been growing well in some South Australian situations where RKN is present.

PGIBSA is supporting further research to examine the extent of this problem with the aim of characterising the extent to which this decline is occurring and whether it is specific to certain scion varieties. For more information visit [www.phylloxera.com.au](http://www.phylloxera.com.au).