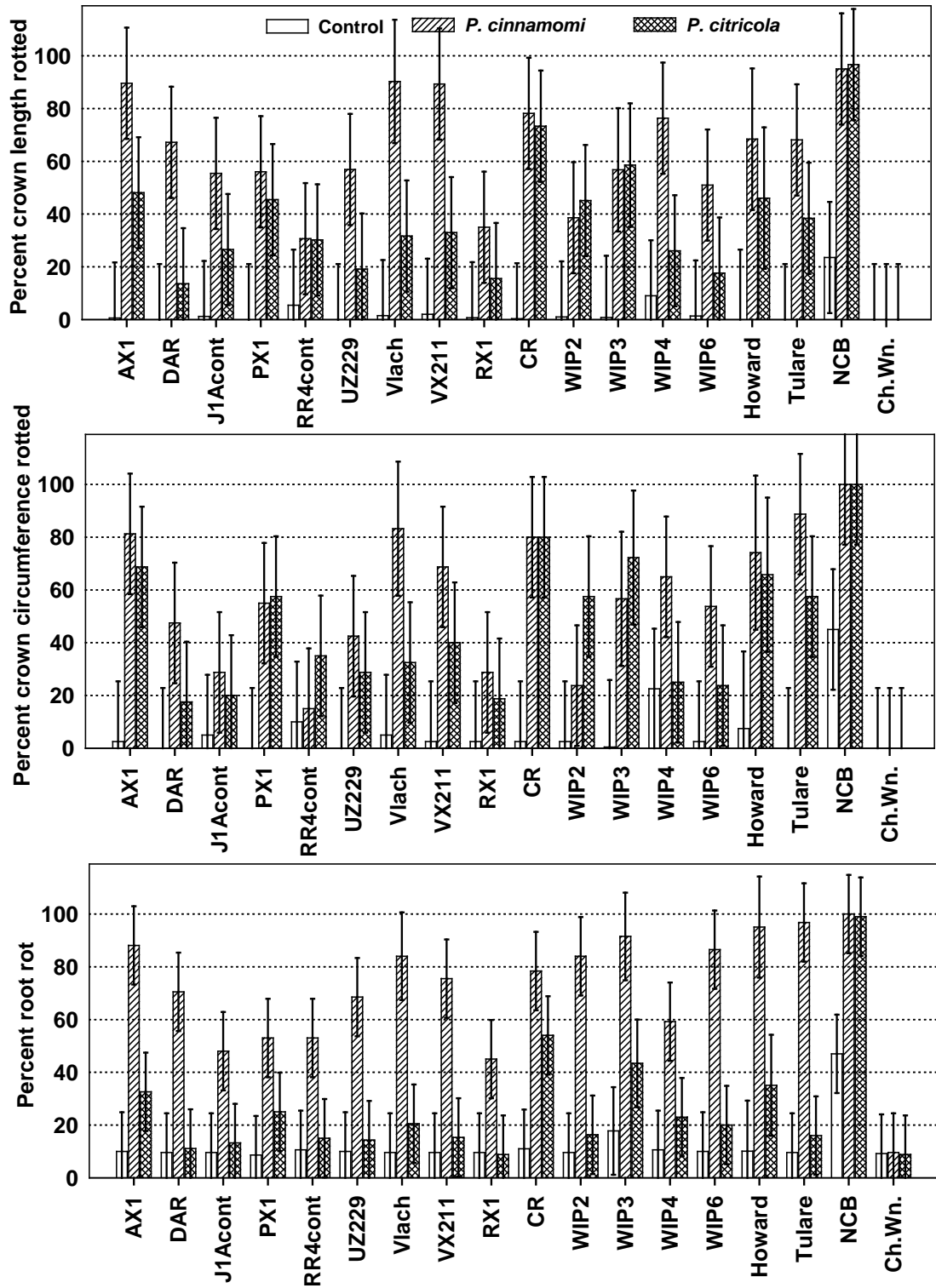
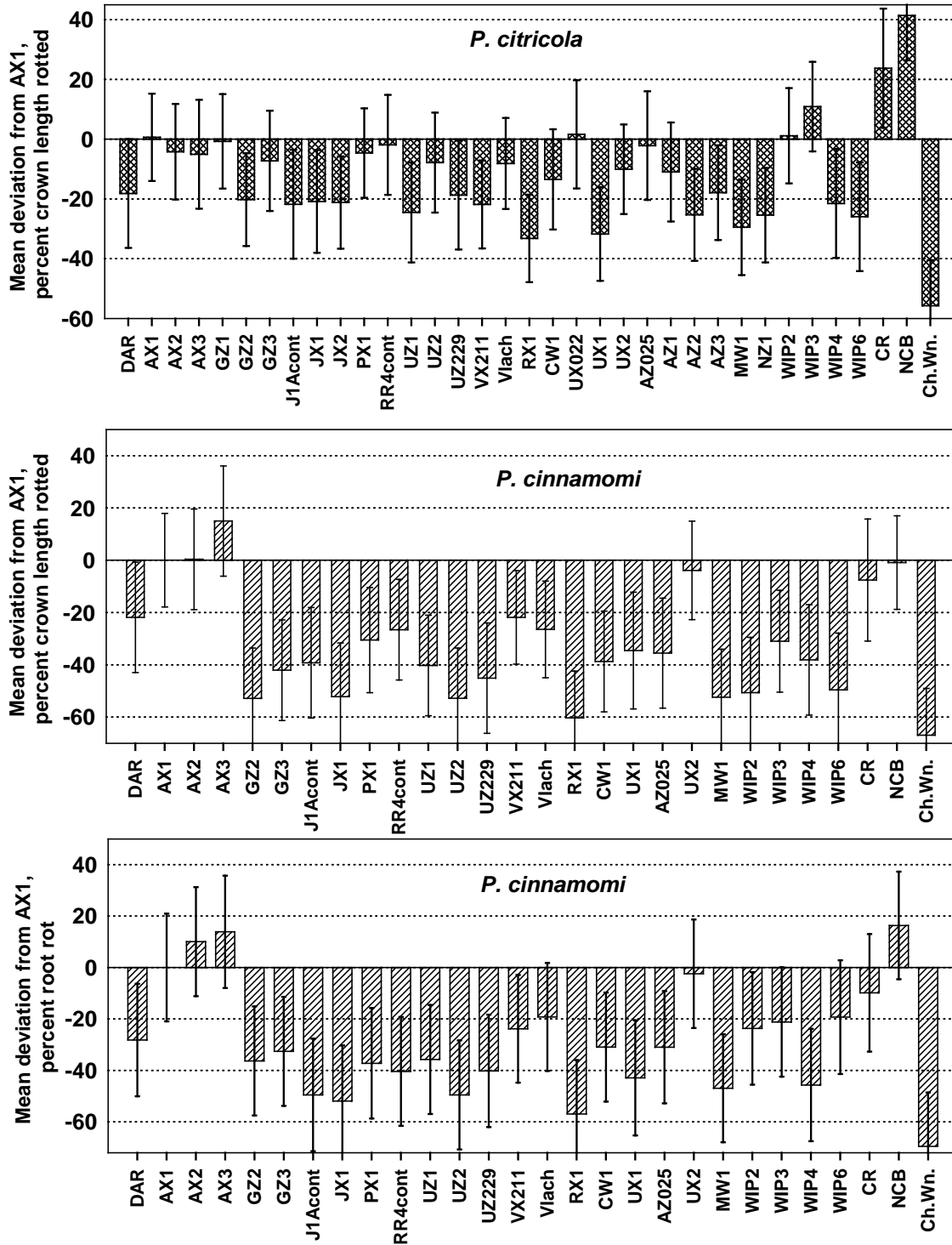


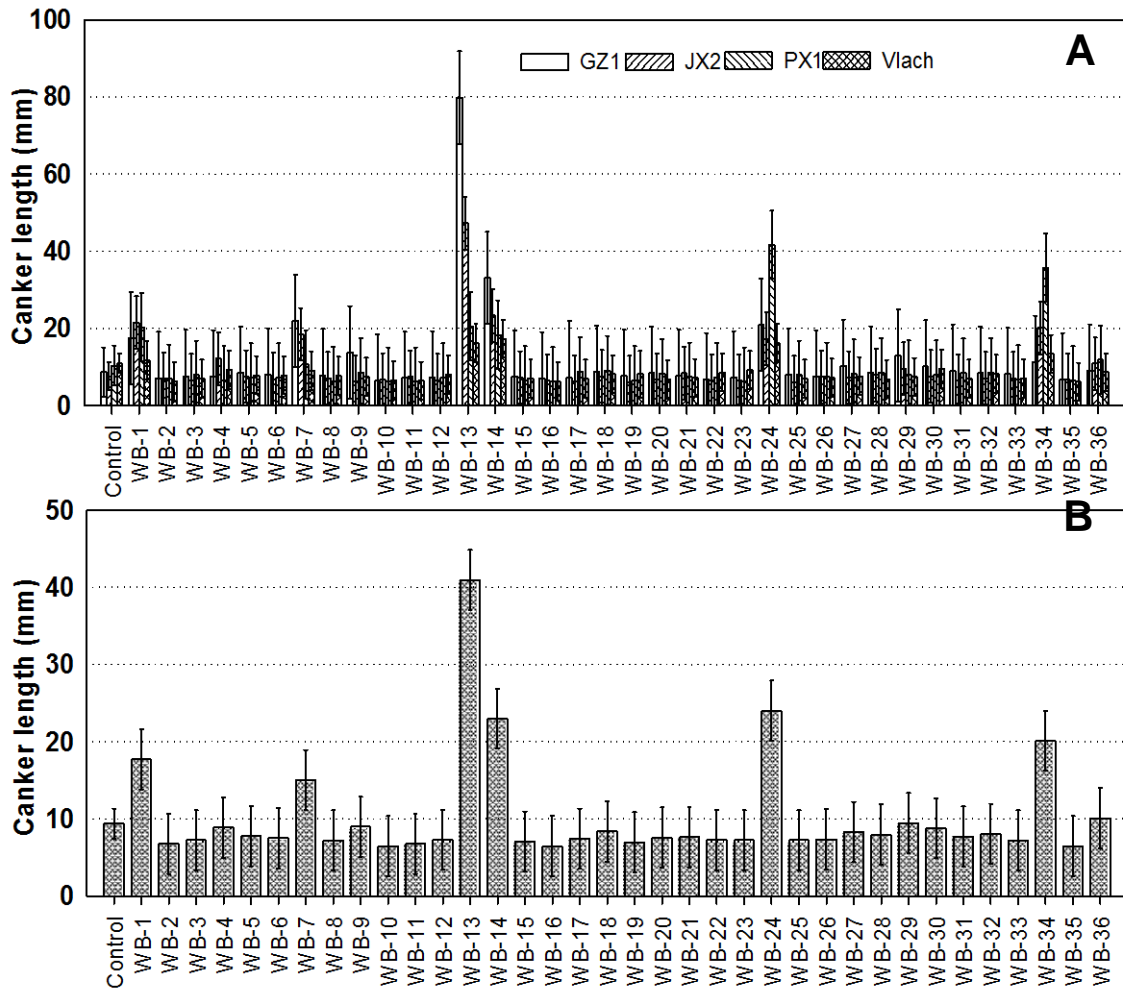
**Fig. 2.** Relative resistance to *Phytophthora cinnamomi* and *P. citricola* in two clonal walnut rootstocks in a “small-plant” greenhouse experiment established September 2010. Plants were subjected to a cycle of chilling and growth resumption before inoculation. Vertical bars are 95% confidence intervals.



**Fig. 3.** Relative resistance to *Phytophthora cinnamomi* and *P. citricola* among 13 clonal *Juglans* hybrid rootstocks, ‘Chandler’ English walnut (CR), ‘Howard’ and ‘Tulare’ English walnuts, Northern California black walnut (NCB), and Chinese wingnut (Ch.Wn.) in a “large-plant” greenhouse experiment established June 2010. Vertical bars are 95% confidence intervals.



**Fig. 4.** Ten-trial summary: relative resistance to *Phytophthora cinnamomi* and *P. citricola* among rootstocks tested in at least two 3-to-4-month trials using the conventional large-plant greenhouse method. All responses are expressed relative to the means for AX1, the susceptible clonal rootstock standard. Vertical bars are 95% confidence intervals.



**Fig. 5.** Pathogenicity of representative bacterial isolates from lethal Paradox cankers in a Sutter County walnut orchard. One-year-old shoot segments (ca. 20 cm length, 10 to 20 mm diameter) were wounded inoculated with one of the isolates or the control and maintained in a humid temperature at 22 to 24 °C for 2 wk before cankers were measured. **A**, resulting canker lengths as a function of inoculant and rootstock (3 replicate shoot segments inoculated per rootstock per inoculant); **B**, canker lengths averaged across rootstocks as a function of inoculant (same experiment as graph A). Tentative isolate identities, where known, based on sequences of 16S rDNA, were as follows: WB-2= *Enterobacter ludwigii*, WB-3= *Pantoea agglomerans*, WB-5= *Bacillus bateviensis*, WB-7= *Brennaria nigrifluens*, WB9= *Pantoea* sp., WB11= *P. agglomerans*, WB-13= *B. nigrifluens*, WB-15= *P. agglomerans*, WB-16= *E. ludwigii*, WB-18= *Cellulosimicrobium cellulans*, WB21= *Kocuria rhizophila*, WB-23= *Bacillus amyloquefecrens*, WB-24= *B. nigrifluens*, WB-25= *Methlobacterium chloromethanicum*, WB-26= uncultured bacterium, WB-28= *Nocardia* sp., WB32= *Labeledella gwakjiensis*, WB-34= *B. nigrifluens*, WB-36= *B. nigrifluens*.