

Replicated Trial, Avocado Seedlings, Sunshine Coast, Qld. Supported by Birdwood Nursery

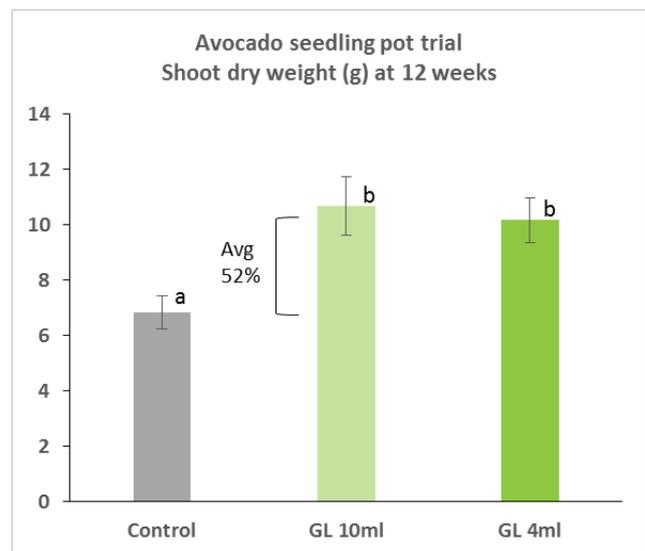
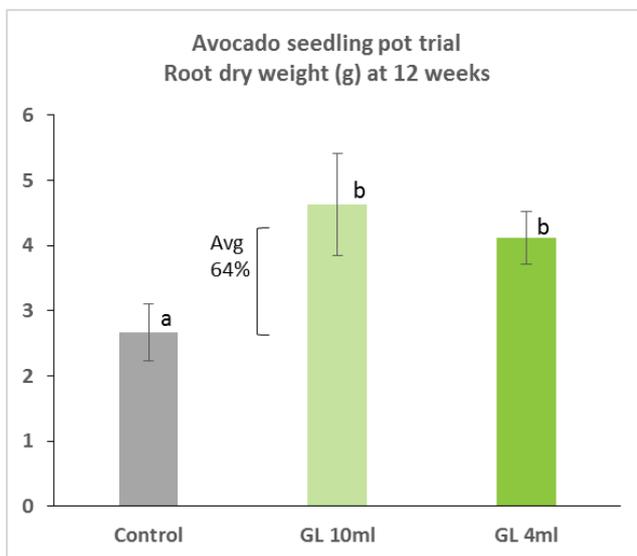
Aim: To determine response of avocado seedling growth to varying rates of Great Land (GL) treatment.

Design: Replicated trial, 25 plants per treatment level. Individual seeds were planted in five litre pots, 15cm diameter x 30 cm high. All seedlings were grown in glasshouse conditions and provided the same nutrient and irrigation program.

Treatments: Varying rates of Great Land treatment were administered, each with a total solution volume of 100mL per pot, applied with a metered spray promptly after planting of the seed. Rates were:
 T1: (Control) nil GL, 100mL water
 T2: GL @ 20 mL + 80mL water per pot
 T3: GL @ 10 mL + 90mL water
 T4: GL @ 4 mL + 96 mL water

Assessments: Root mass and shoot mass (dry weight) were measured at 12 weeks from planting for six of the tallest plants in each treatment group.

Results: At the two low rates of GL (10mL and 4mL per pot) root and shoot mass were significantly higher than the control (see charts below). The highest rate of GL (20mL per pot) showed slightly better plant mass but not significantly different from control, indicating an excessive rate of application.



Conclusions: The significant enhancement of avocado root mass by treatment with Great Land at planting will improve the uptake of nutrients and water use, setting up the plant for better health and performance as it matures.

Avocado Orchard, Mildura - Anecdotal Observations

Commercial application of Great Land to entire blocks of young avocado orchards have shown observable differences in stem diameter and tree growth, improved plant health and resilience to environmental stress. These observations are consistent with the plant having better root growth as found experimentally in a glasshouse.

