

# SERVICE SNAPSHOT

## INDEPENDENT APPLIED RESEARCH



The Levubu Centre for Excellence delivers independent applied research focused on generating practical, science-based solutions for real-world challenges in macadamia, avocado, and broader horticultural integrated pest and disease management systems.

Through a combination of laboratory and field-based research, structured data systems, and rigorous statistical analysis, the Centre produces credible, decision-relevant insights that support improved productivity, quality, sustainability, and innovation.

### Core Capability

The Centre conducts independent research that is:

- Scientifically robust, grounded in sound experimental design and statistical analysis.
- Practically relevant and conducted under commercial orchard conditions.
- Data-driven and supported by structured and reliable datasets.
- Industry-focused through alignment with current production challenges and priorities.

### Applied research and field trials

#### Focus: Generating practical, science-based solutions

- Independent laboratory and on-farm trials under commercial conditions.
- Evaluation of production practices, pest management strategies, and inputs.
- Development of solutions tailored to real production and quality constraints.
- Integration of research outputs into industry-relevant recommendations.

### Data capture and management

#### Focus: Ensuring accurate and reliable datasets

- Systematic collection and recording of field and production data.
- Development of structured data capture protocols.
- Quality control and validation of datasets.
- Integration of data systems to support analysis and interpretation.

### Statistical data analysis

#### Focus: Producing scientifically credible insights.

- Application of robust statistical methods to trial and production data.
- Interpretation of results to support evidence-based conclusions.
- Quantification of treatment effects, variability, and risk.
- Translation of complex data into clear, actionable insights.

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