AUSTRALIAN MACADAMIA SOCIETY

Building on the National Macadamia Map

Your help needed to futureproof the macadamia industry

With the continued rapid expansion of both the Australian and international macadamia industry (global production is expected to increase at an average annual rate of 9% to 2029), accurate industry data is critical. Orchard data to support and further improve existing crop forecast models is crucial to maintain market confidence, and support industry-wide infrastructure and resource planning.

Researchers at the University of New England's Applied Agricultural Remote Sensing Centre (AARSC) have been working with the AMS to update and extend the capabilities of the national map of macadamia orchards, which was developed under Phase 1 of the Multi-scale Monitoring Tools for Managing Australian Tree Crops project. This first phase mapped all tree crops greater than 2 ha and has proven crucial to the AMS in better planning and preparation.

The AMS now needs your support to collate orchard details to help understand what crop we produce annually. Phase 2 of the National Macadamia map involves a higher level of data collection and collation which will produce a powerful analysis tool for informed and fact-based decisions.

The AMS needs grower assistance to complete this phase of the project and realise its significant benefits to individuals and the industry. The AMS has invested in the development of a special tool called Macadamia Block Builder, allowing the AMS to edit the national macadamia map in-house and assign block-level information using a simple secure web application. What we need is your data to include in the map (see details over the page).



Figure 1: Blocks based on the recorded information collected by Phase 2, in this example by cultivar.

Privacy has been a key consideration in this development. The ATCM is built to meet national privacy standards with no personal or commercial information to be published or shared. The National Macadamia Map is owned and managed by the Australian Macadamia Society and is secured under Australian browsers for strict sign-in for AMS access only.

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AARSC Applied Agricultural Remote Sensing Centre

une University of New England

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With a rapidly expanding macadamia industry, understanding the crop we produce on ever differing farms is a challenge and an opportunity. With additional information and planning, we can make better decisions to support on-farm activities and target high value sustainable markets for our diversifying crop. The AMS needs your assistance to help future-proof Australian macadamias.

The benefits to the industry will be numerous and wide-reaching:

- ✓ Tracking and management of biosecurity outbreaks
- ✓ Emergency response to natural disasters
- ✓ Yield forecasting
- ✓ Export opportunities
- ✓ Resource management
- ✓ Industry advocacy
- ✓ Sustainability initiatives

The following information is needed per farm:

- Farm geolocation
- Cultivar/s per block (if >1 a percentage will be assigned)
- Tree and row spacing
- Year of planting (to compare with planting year predictor tool)
- Whether irrigation is used (1) or it is supplementary (2) or the orchard is dryland (3)
- Irrigation source: on-farm surface, e.g. dam (1), on-farm groundwater bore (2), surface license from a river (3) or a scheme system (4)
- Whether the farm is owner operated or managed
- Whether the farm is organic or conventional
- Grower name, phone number, email address (this is optional but will be valuable in the event of a natural disaster or pest incursion)

There are 2 ways you can provide the information to the AMS:

1 Visit the AMS website: australianmacadamias.org and follow the link from the home page to the online survey **OR simply scan the QR code on the right with your mobile phone to go to the survey.**

2 Contact your state-based AMS staff member (see below) and attach a KML file from your farming/mapping APP. Please also include the additional information listed above. If this is not possible, contact the AMS for an alternative method.

NSW

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This information is protected by and for use by the AMS only. We appreciate your contribution towards completing this exciting industry project.