



iAPIS

Modular operational, asset and hive management system for commercial beekeepers

Intelligence for smarter decisions and increased productivity

FEATURING:

 Works

 Monitoring

 Assets

 Extraction



APIS Solutions
Unlocking Bee Potential



ECROTEK

Right data + right time = smarter operational decisions

As margins tighten, commercial honey beekeepers in New Zealand and Australia need smart ways to improve efficiency, lower costs, manage resources and maximise yields from every hive – all while supporting bee health.

iAPIS is a revolutionary management system developed by APIS Solutions, Ecrotek, the commercial beekeeping industry and leading researchers in New Zealand and Australia. iAPIS draws accurate and meaningful data from your hives and combines it with industry-leading knowledge to support operational, asset and hive-management decision-making. You save time and money.

iAPIS features four modules, which cover all areas commercial beekeepers must manage effectively to stay profitable. The modules can be fully integrated or used as stand-alone tools.

Works

Effective operations management

iAPIS Works is the engine room of the iAPIS system. This intuitive software meets the non-linear demands of beekeeping. A combination of web and mobile applications allows teams to capture accurate data in remote locations. **iAPIS Works** uses this data in real time to underpin cost-saving management decisions and build strong feedback loops for continuous improvement.

iAPIS Works displays data and insights on a customisable dashboard. Whether managing 1,000 or 40,000 hives, you can:

- Analyse individual hive or apiary performance
- Coordinate visits and assign tasks at an apiary or hive level
- Forecast material use
- Track performance and optimise future visits based on hive strength, and
- Map all apiaries to record access issues and hazards.

The mobile application allows crews to:

- Complete easily configurable visit reports to capture and store accurate visit data
- Reschedule visits on the go
- Be notified of specific landowner requirements when approaching the site
- Provide free form feedback using photos, text or dictation
- Understand health and safety concerns at each apiary, and
- Plan the most efficient visit route using maps integration.

In addition, data from the **iAPIS Monitoring, iAPIS Assets and iAPIS Extraction** modules (see below) can be linked to **iAPIS Works**, making inventory and productivity management a breeze.

Monitoring

Keeping 24/7 tabs on your bees and hives

iAPIS Monitoring uses state-of-the-art, bee-friendly remote sensors to continuously monitor weather conditions, bee activity, hive weight and hive temperature. Data is transmitted to **iAPIS Works** in real time via cellular or satellite networks, so no apiary is too remote to connect. The data flow is uninterrupted, so costly site visits can be minimised.

Accurate and reliable data makes for easy decision-making. You can tell:

- When the honey is flowing
- When hives are close to swarming
- When hive activity is low relative to weather conditions, or
- The optimal time to visit hives and lift the lid, based on hyper-local weather and hive weight.

Alerts for anomalous activity such as stock bumping or reduced hive productivity can be set for operational ease. You can also report hive performance direct to landowners.

iAPIS Monitoring sensor technology is affordable enough for you to individually monitor every hive, not just a sample. That's unprecedented insight into performance across your entire operation.



Assets

Inventory with guaranteed accuracy

With **iAPIS Assets**, every hive is fitted with a radio frequency identification (RFID) tag. Data on hive location and movement can be scanned from up to five metres away, and an entire apiary can be scanned in less than a minute. It's light years ahead of traditional labour-intensive manual stock-taking and asset-tracking approaches.

Using iAPIS Assets, managers can:

- See exactly how much use each asset is getting
- Prevent thefts by tracking asset location
- Assemble an accurate location audit trail for traceability, and
- Easily identify and locate all assets that may have come in contact with a specific item – for example a contaminated hive.

iAPIS Works reduced management hours by 1.5 days per week for the team at a large commercial beekeeping operation in New Zealand.

Extraction

Actionable data for quality improvement

Using the RFID tags, **iAPIS Extraction** links every box of honey back to the apiary it has come from at the time it is weighed. This lineage and weight information is displayed automatically and in real time both at the extraction line and on the **iAPIS Works** dashboard.

You can view productivity statistics for each apiary at a glance, including boxes per hour, boxes per day, best hour, best day, and performance against pre-defined targets. Managers can use this analysis to improve future yield by focusing on highest-margin apiaries.

With iAPIS Extraction, managers can:

- Eliminate paper and clipboards when monitoring lineage for large and small batch extractions
- View real-time weight and lineage data, as well as any additional flags, at time of extraction, and
- Compare the cost-benefit performance by apiary, to ensure an optimal mix is kept for next season.





Contact us today about streamlining your operational, asset and hive management.

w: apissolutions.co.nz/beekeepers

e: david.eade@apissolutions.co.nz

p: +64 9 553 7088

Our Partners and Clients:

