

# From nearly pulled out to the cleanest crop on the farm

Since the Renovum feed scheme was introduced in mid-June, a pest-ravaged cucumber planting the grower was ready to abandon has transformed into a thick, vigorous, highly generative crop — producing large, very high-quality fruit with pest and disease pressure now close to nil.

| GROWER  | LOCATION        | CROP                 | PROGRAM                   | OBSERVATIONS    |
|---------|-----------------|----------------------|---------------------------|-----------------|
| Gurmakh | Woolgoolga, NSW | Cucumber (substrate) | Renovum A + B feed scheme | 27 Apr – 20 Jul |



CURRENT CROP | RENOVUM A + B FEED SCHEME

2

Thrips found across the entire crop

Was: large thrip & downy outbreaks

Up to 4

Harvestable fruit per plant at once

Was: 2.5 → 2 → 0 per vine

Very high

Fruit quality — large and very clean

Was: medium

3.0

Pot EC (mS/cm) nutrient uptake

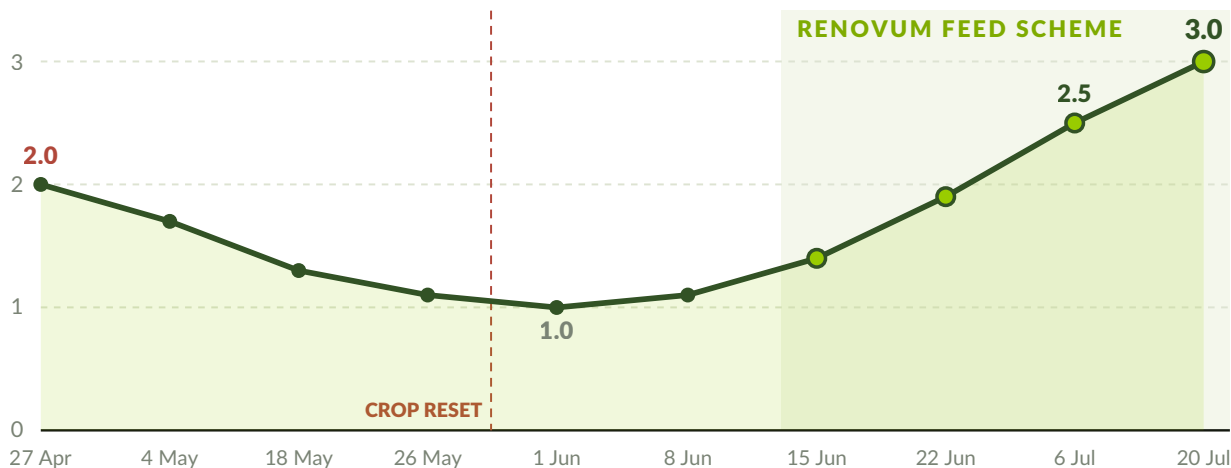
Was: ~1.0 during reset

## RESULTS OVER THE SEASON

# Uptake climbing, pressure collapsed

### Nutrient uptake climbing as the crop matures

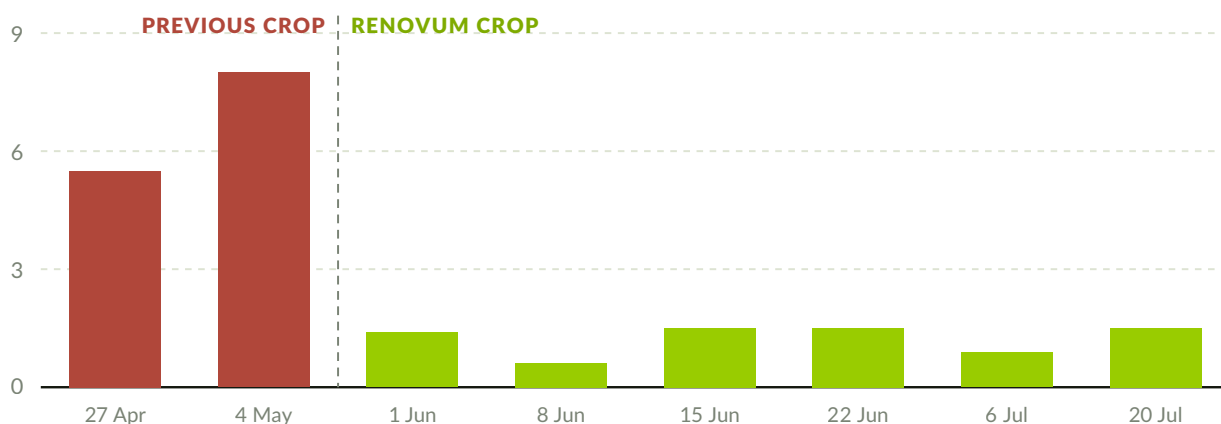
Pot EC (mS/cm) recorded at each weekly visit



**Reading it:** EC falls from 2.0 as the previous crop declines and the bags are reset to ~1.0, then climbs steadily once the Renovum feed scheme goes on in mid-June — reaching **3.0 mS/cm** by 20 July as the crop takes up nutrition at full rate.

### Pest & disease pressure collapsed

Relative pressure index (0 = clean · 10 = severe)



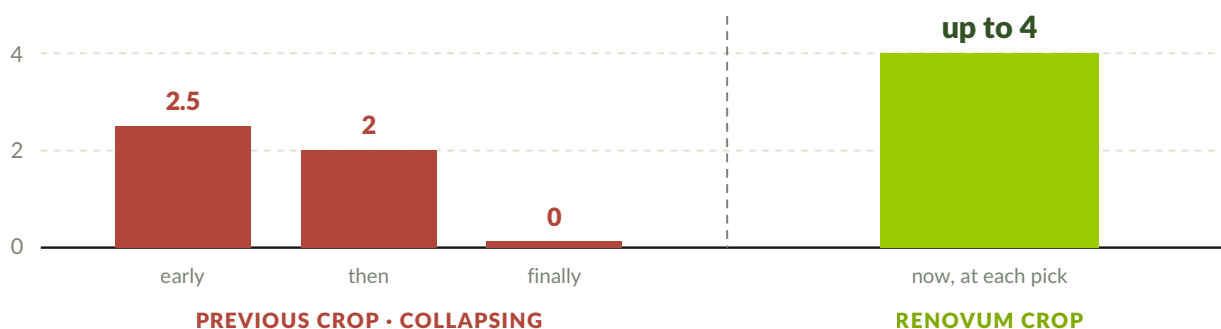
**Reading it:** the previous crop carried aggressive downy mildew and large thrip populations. Under the Renovum program pressure sits near the floor and stays there — at the 20 July visit just **two thrips** were found across the whole planting.

## BEFORE THE PROGRAM VS. NOW

## Fruit load and crop condition

## Fruit load recovered — and then some

Harvestable fruit carried on a plant at one time



**Reading it:** the previous crop slid from 2.5 to 2 to **zero** harvestable fruit per vine. The current crop under the Renovum program carries **up to four** harvestable fruit at once, with multiple fruit sets forming regularly behind them.

## PREVIOUS CROP • PRE-RENOVUM

## Struggling and declining

- Aggressive **downy mildew** and large thrip populations from poor spray coverage
- Vine health so poor the grower was **considering pulling the crop out**
- Yield collapsing: **2.5 → 2 → 0** harvestable fruit per vine
- Fruit quality only **medium**

## CURRENT CROP • RENOVUM PROGRAM

## Vigorous, clean &amp; productive

- Crop very clean — only **two thrips** found across the whole planting
- Thick, vigorous, highly generative vines with **abundant fine white roots**
- Up to four harvestable fruit** on a plant at once, with multiple fruit sets forming regularly
- Fruit **large, very high quality** and very clean

## THE SEASON IN FOUR MOVES

27 APR – 4 MAY

## Previous crop failing

Downy mildew and large thrip populations. Yield sliding to zero, EC at 2.0 and falling, the grower considering pulling the crop out.

MAY – 1 JUN

## Crop reset

Old crop out, bags reset and replanted. Pot EC bottoms out at around 1.0 mS/cm as the new crop establishes.

MID-JUNE

## Renovum feed scheme on

Umbra into the A tank, Aequor into the B tank, running continuously through fertigation with weekly applications on top.

20 JUL

## Clean, vigorous, cropping

Pot EC 3.0, two thrips across the whole planting, up to four harvestable fruit per plant and very high fruit quality.

## THE TRANSFORMATION IN THE FIELD

## Same tunnels, same grower — a different crop

## BEFORE — PREVIOUS CROP

**BEFORE**

Severe downy mildew — mottled, yellowing foliage across the canopy.

**BEFORE**

Rows of brown, collapsing leaves; the grower was considering pulling the crop out.

## AFTER — CURRENT CROP UNDER THE RENOVUM PROGRAM

**AFTER**

A vigorous, uniform, very clean green canopy running the length of the tunnel.

**AFTER**

Thick, vigorous stem with strong new growth — the vegetative vigor the program delivers.

## WHAT IS DRIVING THE RESULTS

## The Renovum A + B feed scheme

Since mid-June the crop has run on the updated Renovum A + B feed scheme. Two flagship products anchor the program and are delivered continuously through fertigation, with regular weekly applications on top.

## HOW IT'S APPLIED

**20 L of Umbra** in the A tank and **20 L of Aequor** in the B tank go out with the updated Renovum A + B feed scheme, plus **regular weekly applications** through fertigation.



RENOVUM UMBRA · PRODUCT LABEL

## Umbra 5-0-5-0

## PROFESSIONAL VEGETATIVE BOOSTER

A chelated **Nitrate, Potassium, Calcium and Magnesium** liquid fertiliser that uses Renovum's eXo advanced complexing for superior uptake. It promotes **optimal fruit formation and fill**.

- Drives vegetative vigour, strong canopies and root mass — high yield potential
- **Calcium** feeds cell-wall strength (with boron) for pest & disease resistance
- **Potassium** supports fruit fill, size and quality
- eXo advanced complexing → superior nutrient-uptake efficiency

|                                  |               |
|----------------------------------|---------------|
| Total nitrogen (N)               | 4.82%         |
| as nitrate (NO <sub>3</sub> )    | 4.69%         |
| as ammonium (NH <sub>4</sub> )   | 0.13%         |
| Potassium (K / K <sub>2</sub> O) | 4.60% / 5.54% |
| Calcium (Ca)                     | 2.28%         |
| Magnesium (Mg)                   | 1.08%         |



RENOVUM AEQUOR · PRODUCT LABEL

## Aequor BIO-STIMULANT

## ELITE SEAWEED CONCENTRATE BLEND

An **Ascophyllum nodosum** kelp + **fulvic acid** + **amino acid** bio-stimulant blend that promotes **root growth and immunity**. Made from a 100% organic seaweed base rich in natural phytohormones.

- Stimulates prolific **root growth** — the abundant fine white roots now on the bags
- Boosts natural **immunity** and tolerance to biotic & abiotic stress
- Natural phytohormones (auxins, cytokinins), alginates, mannitol & amino acids
- Enhances flowering and fruiting; enriches root-zone microbial activity

## WHY THE PROGRAM IS WORKING

## The agronomy behind the transformation

## 01

**Thicker, stronger cell walls**

Optimised **calcium** (supplied by Umbra) and **boron** build thicker, stronger cell walls that physically resist fungal penetration and insect piercing.

## 02

**No feeding signal for pests**

Optimised **nitrate** means no surplus extracellular nitrogen in the leaf — removing the chemical cue that signals mites and aphids to feed.

## 03

**Vigorous, higher-yielding vines**

Balanced **nitrogen, calcium and boron**, plus Aequor's bio-stimulation, drives thicker stems, stronger roots and a heavier, higher-quality fruit set.

**A failing planting is now one of the cleanest, most vigorous crops on the farm.**

Optimised nitrogen, calcium and boron are building tougher plants from the inside out — **thicker cell walls** that resist fungus and insect piercing, and balanced nitrate that gives mites and aphids no reason to feed.

**Umbra** is powering vegetative vigour and fruit fill, while **Aequor** drives the prolific white-root growth and natural immunity now visible across the crop. The result is thicker stems, higher yield and very high quality, very clean fruit — with pest and disease pressure close to nil.

## WHAT THE PROGRAM DELIVERED

- Pest & disease pressure close to nil** — two thrips across the entire planting, down from large thrip and downy mildew outbreaks
- Yield turned around** — from a collapse to zero on the previous crop to up to four harvestable fruit on a plant at once

- Nutrient uptake tripled** — pot EC from ~1.0 at reset to 3.0 mS/cm as the crop feeds at full rate
- Quality lifted from medium to very high** — large, very clean fruit, on thick vigorous vines with abundant fine white roots



**About this report.** Observations recorded by Renovum Agronomy at weekly grower visits between 27 April and 20 July 2026 at Gurmakh, Woolgoolga, NSW, on a substrate cucumber crop. The Renovum A + B feed scheme (Umbra + Aequor) was introduced in mid-June. Pot EC values are single-point readings taken at each visit; pest and disease pressure is a relative field assessment, not a formal count. This is a commercial progress report on one crop at one site, not a replicated trial — results at other sites and in other crops may differ.