

AGRICULTURE CASE STUDY

From Field Signals to Field Action

How field observations became inspection evidence and farm decisions at Michell Farms.

STRAWBERRY 1

April–June 2026 • 2.87 acres

Human-supervised mission intelligence
Applied to agricultural inspection

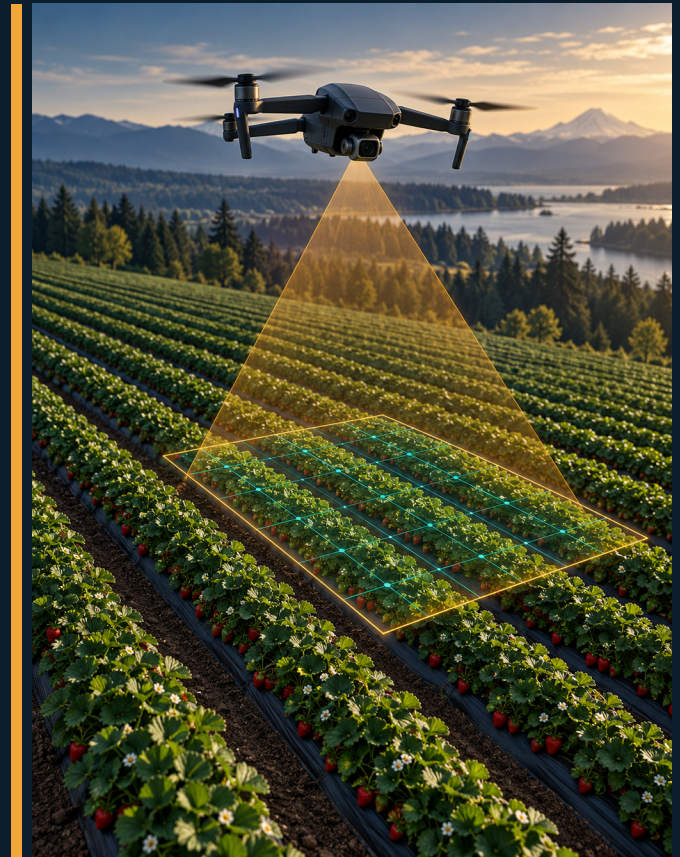
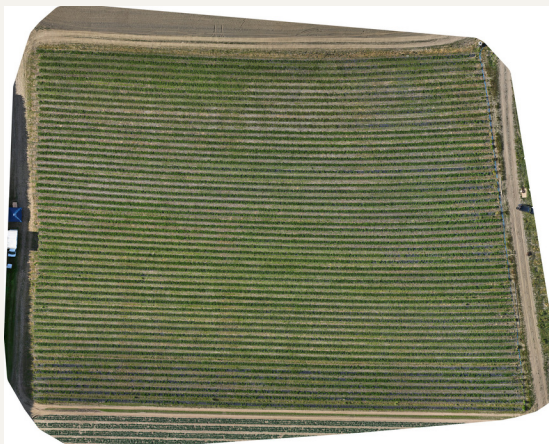


Illustration • drone-assisted field inspection

THE CASE EVIDENCE / 27 MAY 2026**Field RGB assessment + ground photograph**

Dated views from Strawberry 1.
Paired by date and assigned field.

Strawberry 1 • Full field RGB assessment and selected ground photograph.

GROWER-REPORTED COMMERCIAL OUTCOME

The grower used Chimera's evidence to substantiate a supplier claim and received a refund. The refund amount is private.

Human-supervised mission intelligence

Chimera Vision is a human-supervised mission-intelligence layer. It processes imagery and location data locally, identifies areas requiring attention, supports operator review and directs further evidence collection. Strawberry 1 shows this approach in use for field inspection and farm decisions.



Demonstrated in Strawberry 1

In Strawberry 1, repeated aerial reviews located areas of concern, ground observations and photographs added detail, and dated comparisons kept changing conditions visible. The grower used that evidence in treatment, irrigation and supplier decisions. People reviewed the evidence and chose the response.

Three concerns required different decisions

Three concerns required different decisions: weak planting material in five bottom rows, Row 15 irrigation stress, and later scattered crop deterioration. The grower used the evidence to address each concern separately.

2.87 acres

1.161 ha • field area

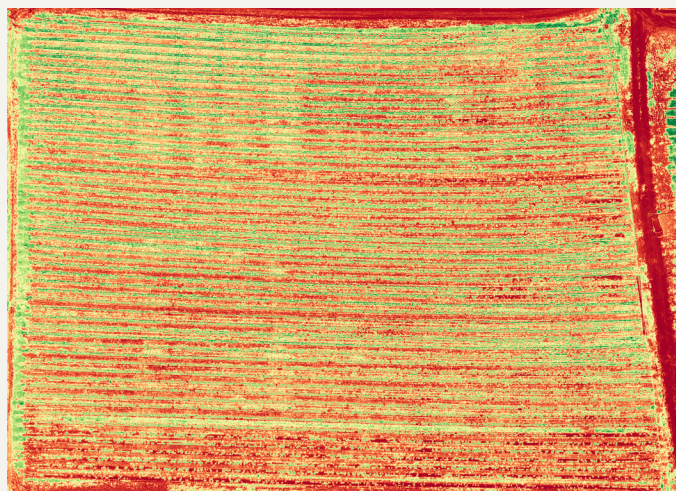
A record people could return to

Dated reviews kept concerns, photographs and grower decisions together, giving the farm a record it could return to as conditions changed.

Evidence for the next decision

20 APRIL 2026

Planting material

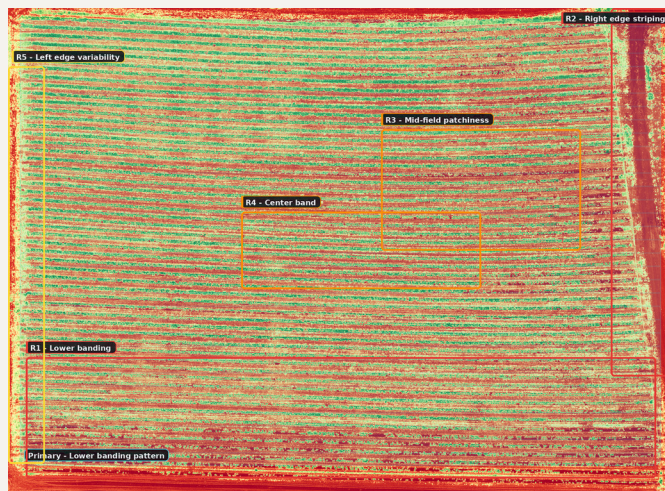


Strawberry 1 • Vegetation-index field review. The five-row planting concern was identified during the field assessment.

The April 20 review focused attention on five bottom rows. The grower identified the planting material as weak, used Chimera's imagery and documentation to substantiate a supplier claim, and received a refund. The amount is private. This commercial outcome comes from the grower's account.

29 APRIL 2026

Irrigation



Strawberry 1 • Scouting-report map. Row 15 irrigation stress was identified in the operator's field record.

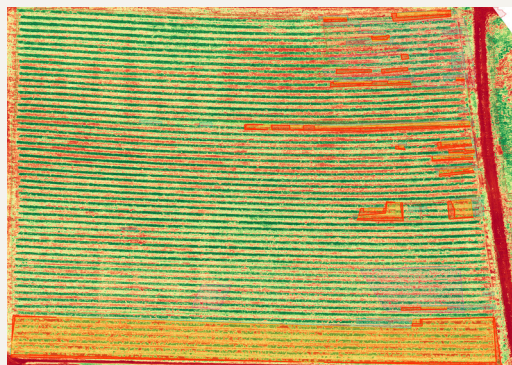
The April 29 review focused attention on Row 15 irrigation stress. The farm deferred repair until after the season. The separate estimate below records the repair planning budget.

A deferred planning budget

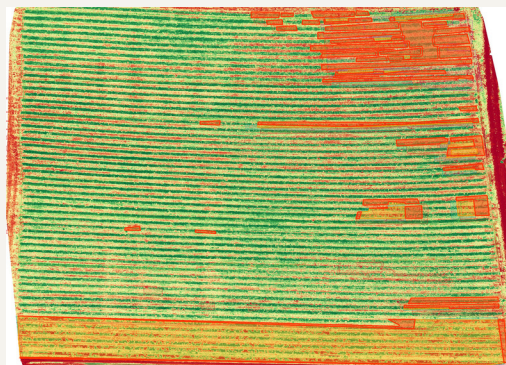
Conditional repair planning budget: CAD 950–1,350 before tax, for two accessible replacement drip lines along an assumed 100-metre row (200 metres of line). Repair was deferred until after the season. This is a planning allowance, not expenditure; line specification, fittings and labour detail remain open assumptions in the appendix.

Where the next inspection starts

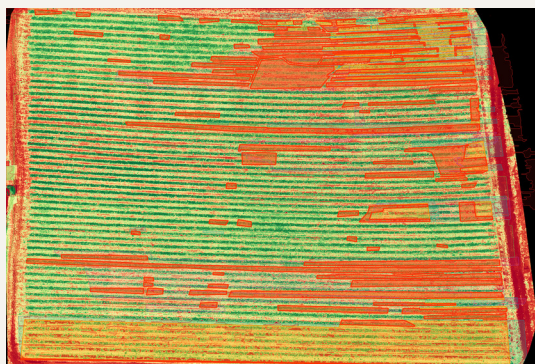
22 MAY 2026



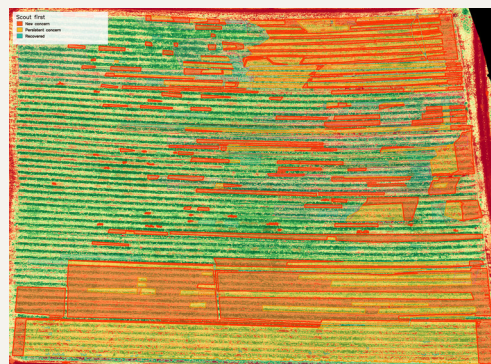
27 MAY 2026



29 MAY 2026

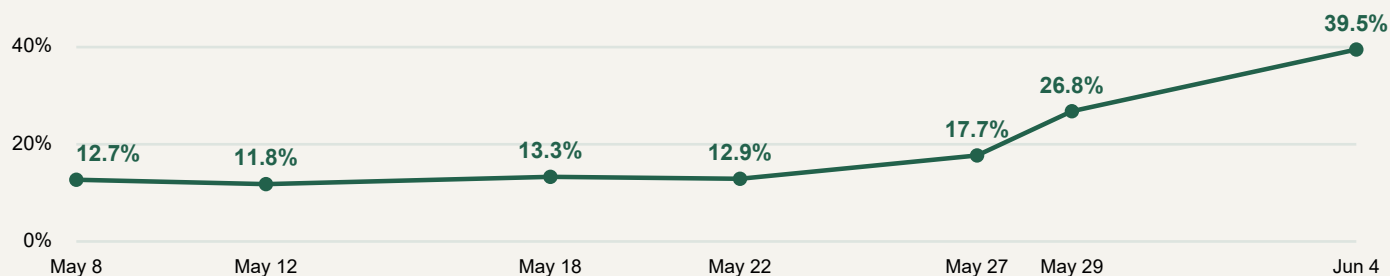


4 JUNE 2026



Dated vegetation-index review maps. Orange/red = new concern; amber = persistent concern; teal = recovered review category. These are source review labels, not disease diagnoses.

Reported image-space concern share

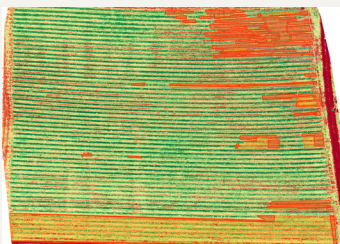


2026 • Source: Strawberry 1 assessment report • Reported image-space review values.

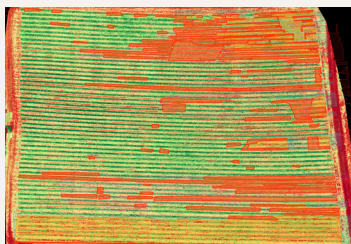
Between May 22 and June 4, reported image-space concern share changed by +26.6 percentage points (39.5 – 12.9). This describes the reported review series. It does not establish acres affected, disease extent or treatment effect.

What the field inspection added

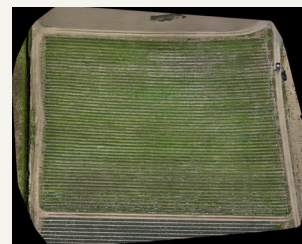
27 MAY 2026



29 MAY 2026



11 JUNE 2026



Aerial review above; ground detail below. Paired by date and field, not exact plant location. May 27 and May 29 use vegetation-index maps; June 11 uses RGB.

Ground inspections took place on May 12, May 29 and June 11. The selected photographs, captured on May 27, May 29 and June 11, documented leaf discolouration, curled margins and brown tissue. These details gave the grower a record to compare with the aerial assessments.

Downy mildew was the working suspicion during the field response. Later in the season, tissue testing identified black rot, according to the farmer. The aerial and ground imagery provided the inspection record; disease identification came from the later testing account.

The farm applied Luna Tranquility plus Captan three times, then changed to Pristine plus Captan for two applications. Affected patches continued to deteriorate. The grower stopped treating those patches and harvested the remaining fruit. This treatment-and-harvest sequence is recorded in the grower's account.

The farmer estimated fruit loss at approximately 100 lb (45 kg), separate from the mapped-concern figures. The hedge was removed later in the season. Its proposed role in reinfection remains unproven.

Estimated product-consumption cost: approximately CAD 1,570–1,710 for five assumed full-field applications, including CAD 805–945 for the final two. The model uses current Canadian label rates, an assumed Maestro 80 WSP Captan formulation, 2023 Québec price proxies and a 2026 Saskatchewan Pristine price. It excludes labour, fuel, equipment, tax, shipping and downtime. This is neither actual expenditure nor a treatment recommendation.

Build useful inspection evidence

Know where to look, collect the evidence that matters and keep people in control. Strawberry 1 shows how Chimera Vision connects field observations to practical farm decisions.

Field visibility

Keep emerging field concerns in view.

Targeted inspection

Take dated map cues into the field.

Evidence continuity

Retain images and observations across visits.

Decision traceability

Connect concerns, farm responses and follow-up.

Implemented for agricultural field work

The agricultural processing and review workflow is fully implemented and field deployed. In Strawberry 1, people used it to review aerial imagery, collect ground evidence, compare changing conditions and support grower decisions.

The value demonstrated here is practical: inspection priorities, supporting photographs, dated comparisons and evidence used in farm and supplier decisions.

Book a Chimera Vision pilot consultation.

Define an inspection question, select one field for a demonstration, agree on permitted actions and establish how usefulness will be checked.

