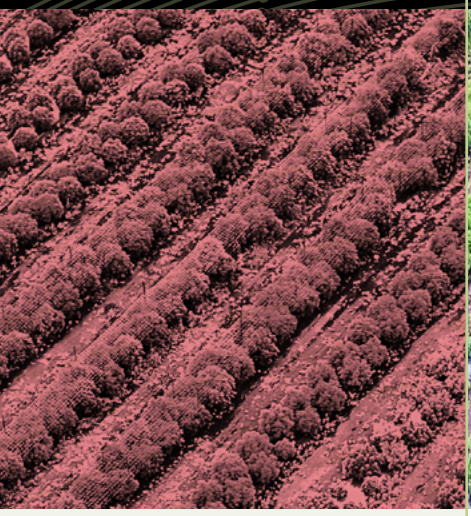
WE HELP YOU TO SEE THE FIELD
FROM ANOTHER PERSPECTIVE.

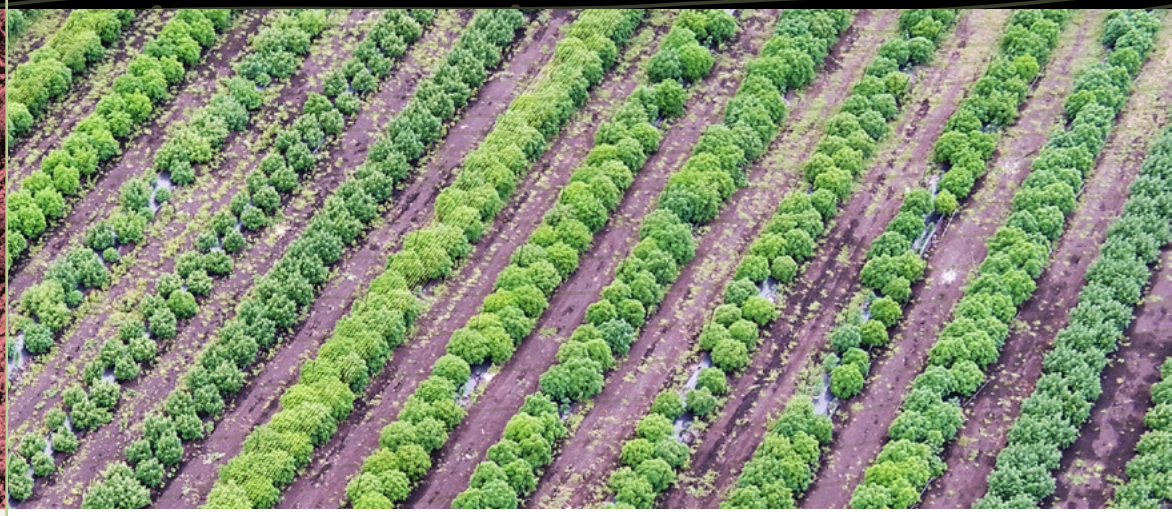
Ag-Intel

THE GLOBAL LEADER IN UNMANNED AERIAL
VEHICLE CANNABIS PLANT MANAGEMENT

ORIGINS

Ag-Intel's journey started over 20 years ago with our parent company, Coastal Resource Mapping. We are a team of geospatial analysts and our goal is to be the global leader in cannabis-specific precision agriculture technologies.





"We use drones and artificial intelligence to detect problems quickly and at scale."

John Ziemanski,
CEO Coastal Resource Mapping

2.3M

acres of licensed
Cannabis fields globally

THE PROBLEM

There are currently over 2.3 million acres of licensed cannabis fields globally, and that number continues to grow as legalization throughout the world continues.

These farmers are currently using outdated technology or manual labour to measure the plants' health and gender, often resulting in costly errors. Mistakes lead to thousands of unhealthy plants that could have been saved by earlier detection using precision agriculture technologies.

LABOUR

Labour is one of the biggest expenses for cannabis growers. Using precision agriculture won't eliminate all your labour costs, but it will allow you to make the process more efficient by proactively protecting the plants rather than spending time inspecting and counting plants.

With our future plans of identifying cannabis specific diseases, we will further improve labour efficiency by eliminating the manual inspection tasks, allowing your labour force to focus on taking care of the plants.

"With the recent increased global decriminalization of Cannabis, the technology lag in farming techniques is still extremely wide compared to traditional agriculture commodities."

Paul Cheetham,
Chief Operating Officer, Ag-Intel

OUR SOLUTION

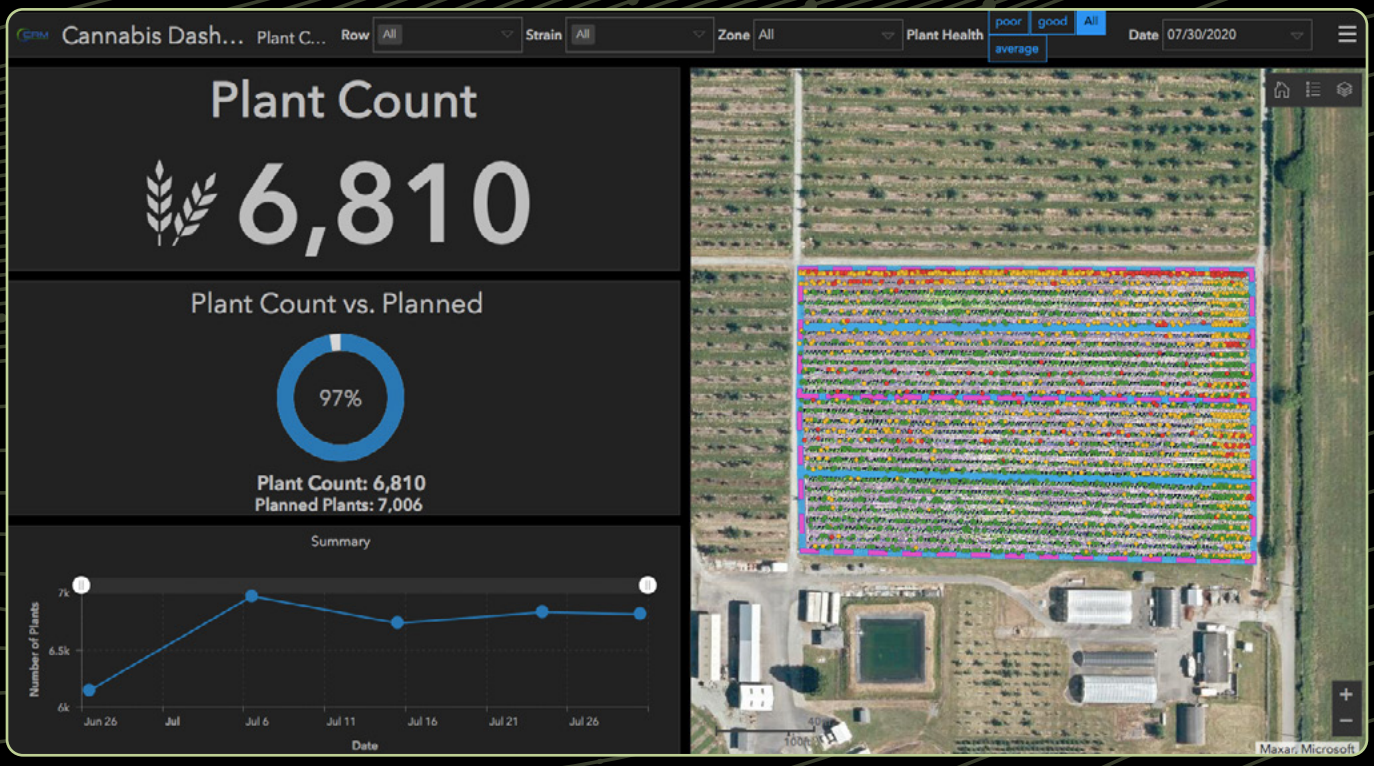
- Automatic plant count / Population monitoring (strain identification)
- Plant stress levels
- Plant gender mapping
- Disease and pest mapping
- Automatic plant size and area estimation
- Revenue forecasting
- Secure web portal customized to your specific needs
- Mobile application for field operation and ground confirmation

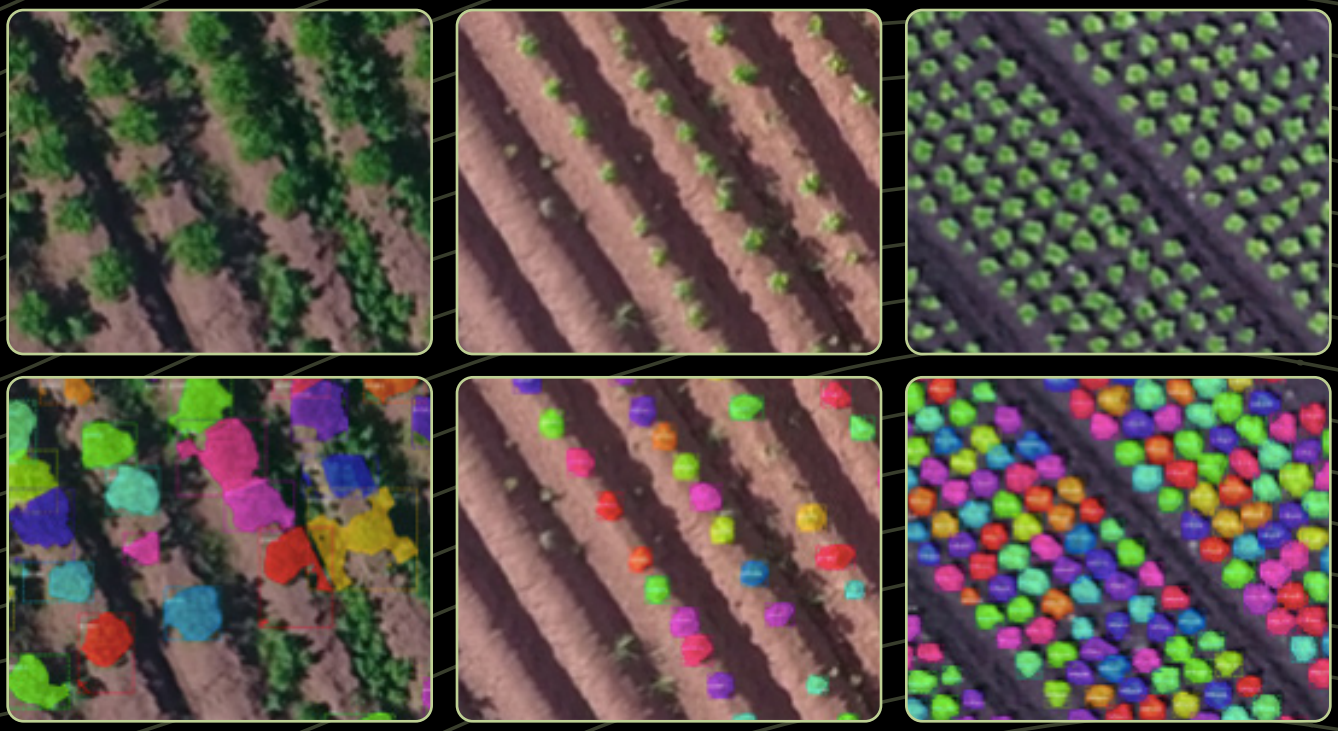
BY 2021

- Bud rot detection
- Number of buds per plant
- Harvest readiness
- Powdery mildew detection
- Automatic gender identification

PLANT COUNT POPULATION MONITORING

Instead of “walking the field” to get an accurate count or updating old spreadsheets whenever plants are replaced, we use deep learning computer models to identify and track every single plant and strain in your field throughout the growing season.



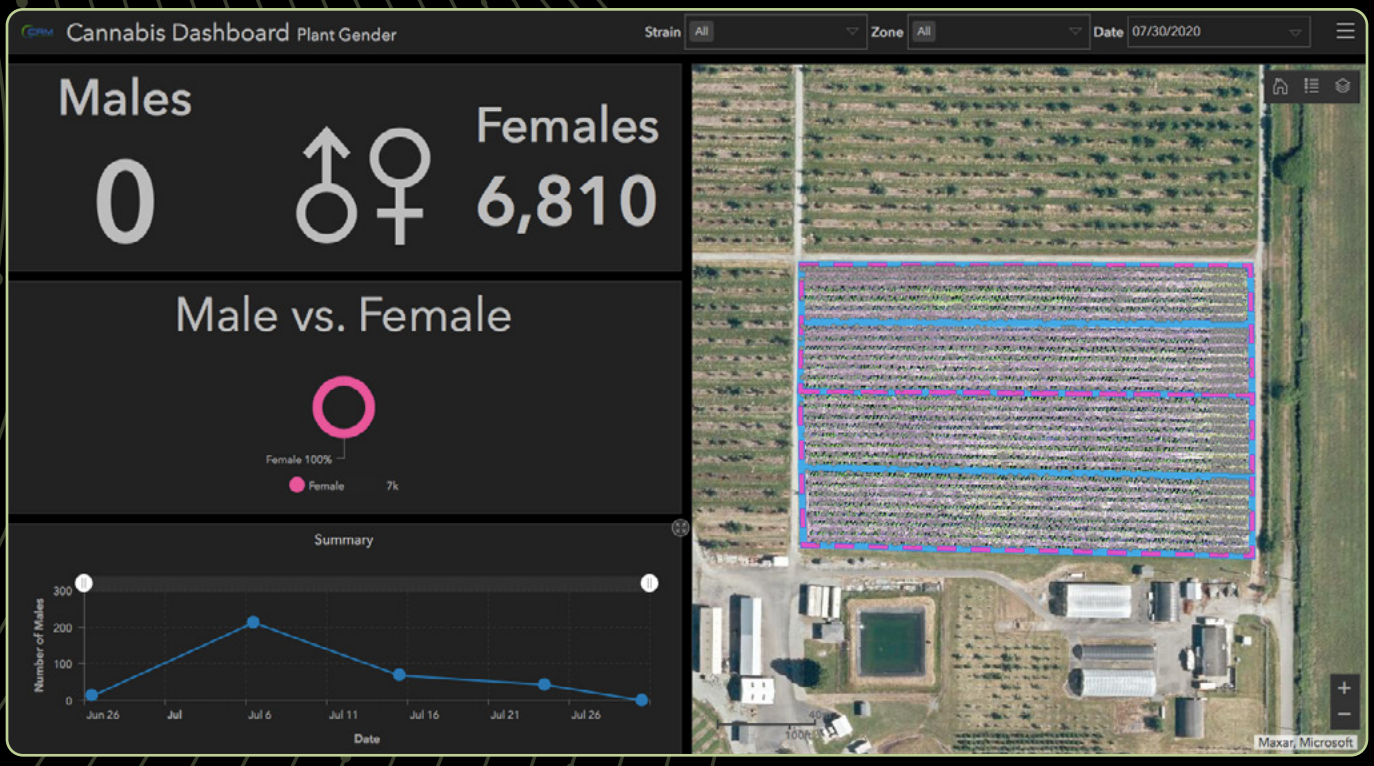


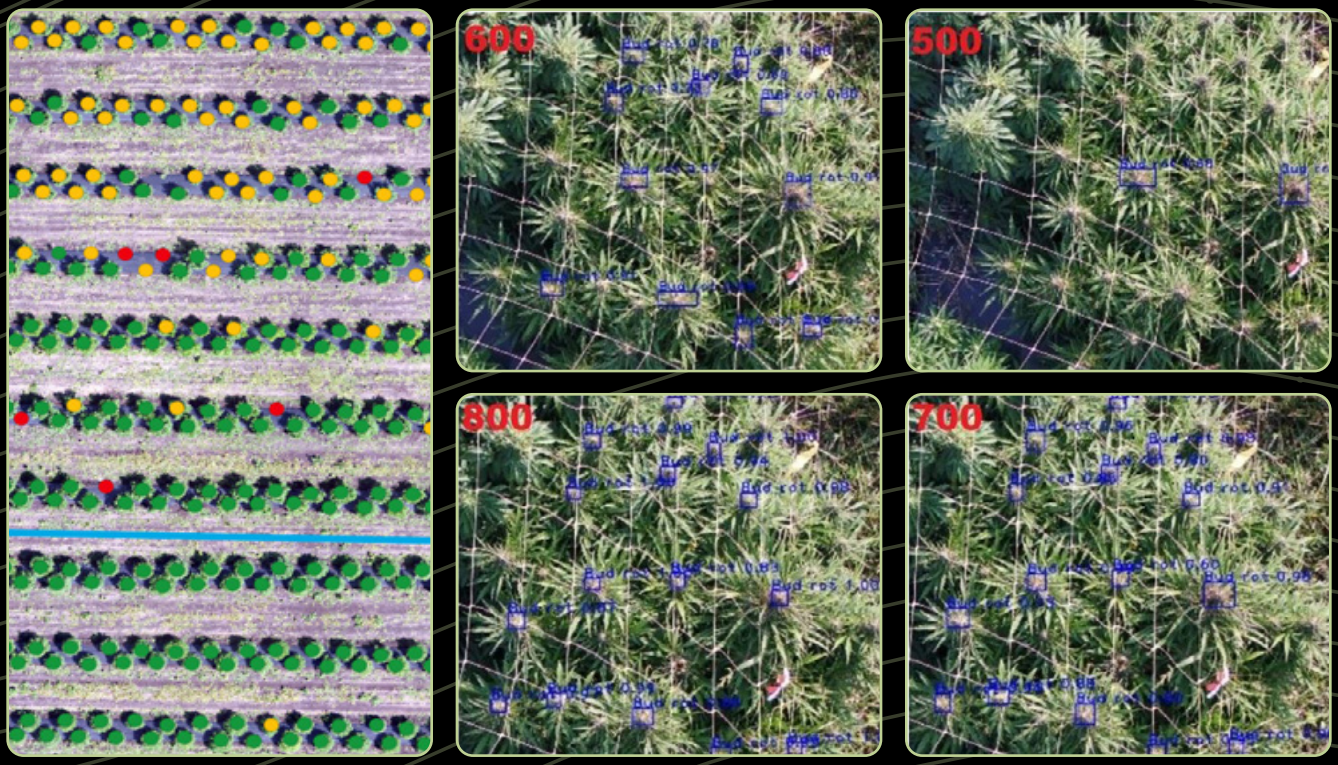
AUTOMATIC PLANT STRESS MONITORING

UAV-based remote sensing has given a great opportunity to assess plants' growth by capturing different light spectrum bands (Blue, NIR, Red, Green, and Red-edge). Under optimum conditions, healthy plants look green because they absorb red bands and reflect the green band of the light spectrum (Hatfield et al., 2008). A strong relationship of this combination of light has been reported with photosynthesis, stress and nutrient status in plants (Hatfield et al., 2008; Shafian et al., 2018).

PLANT GENDER MAPPING

With our field collector app (available on IOS and Android), your team can quickly identify and report male or hermaphrodite plants. If they are unsure, they can take a picture, which is instantly uploaded to the dashboard for confirmation by the master grower.



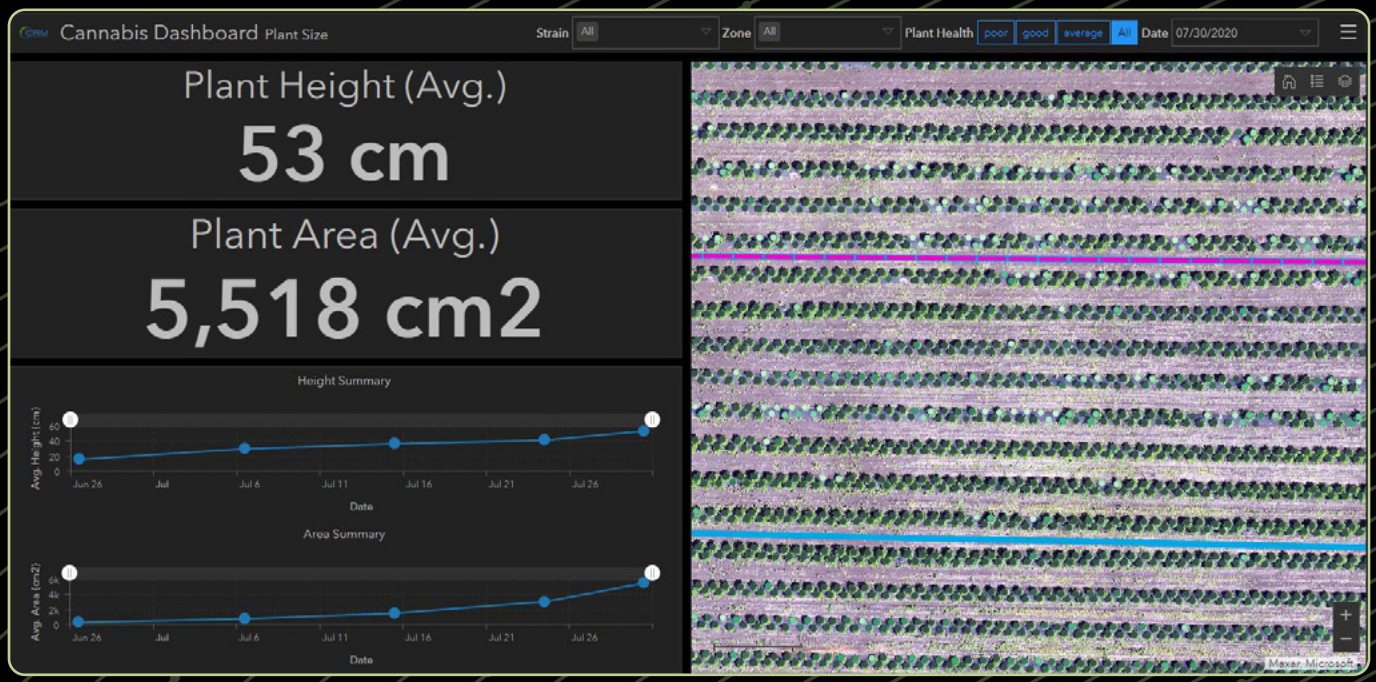


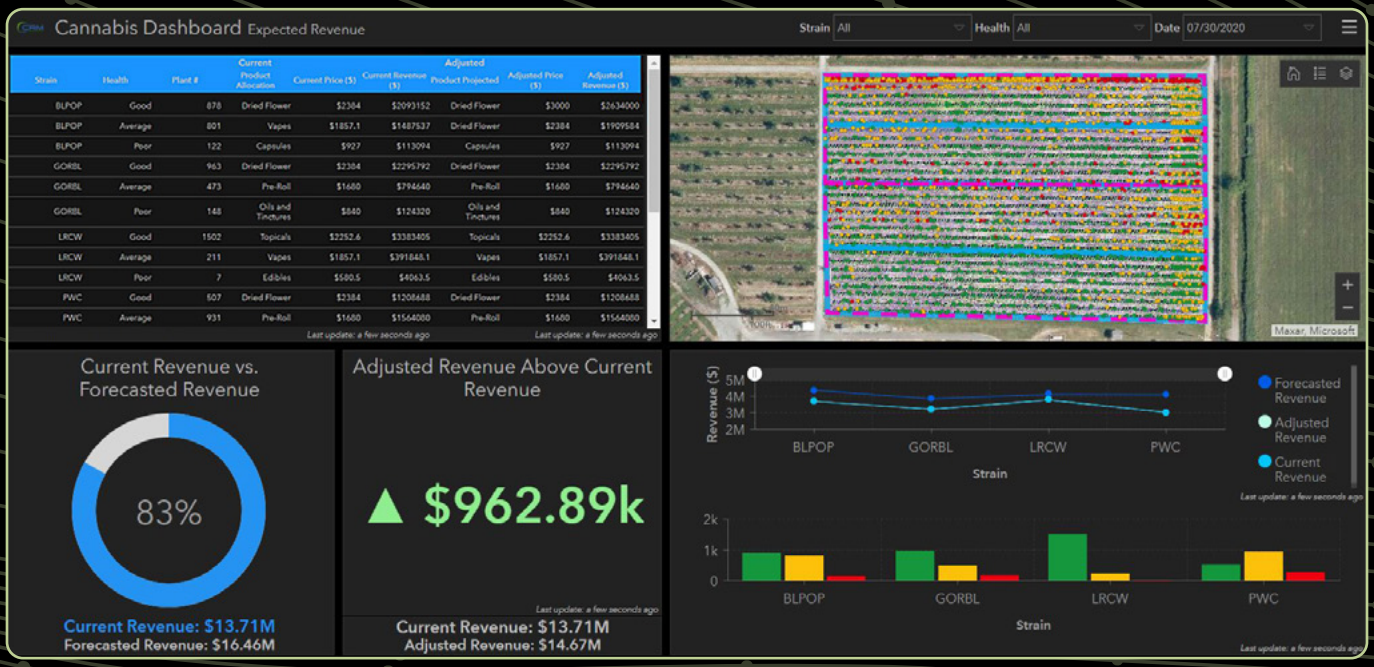
DISEASE AND PEST MAPPING

Botrytis (aka Bud Rot), white powdery mildew, caterpillars, flea beetles, and fungus gnats are just some of the pests and diseases a grower potentially faces. With our field collector app, we arm your team to identify these nuisances. They are geographically mapped on your dashboard, allowing you to identify trends and track any problem areas. The information gathered can be used to maximize farming practices and eradicate these problems for future harvest seasons.

PLANT SIZE AND AREA

Whether you are on flat ground or a sloped field, we will tell you the height and area of each plant by strain, as well as the average for the entire field. Agronomists have found that crop height is one of the most direct indicators of plant growth and development and can be indirectly related to productivity and growth rate. To maximize your crop yield, the plants' height and area can be used to evaluate various crop management strategies.





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REVENUE FORECASTING

Our revenue forecasting tab allows you, as the grower, to customize and forecast your expected revenue. We correlate the important factors for you, such as health, grade, disease infestation, height and size, with current market prices to help you make important decisions that impact your bottom line.

CLIENT TESTIMONIAL

"Throughout my career, I've always been a believer in big data. I was never a fan of making decisions based on a 'gut feelings' because things tend to change from day to day. With big data, 'it is what it is' which allows for much better decision making.

With Ag-Intel, not only do we get useful and actionable insights on the health of our plants, but the field ops functionality is also a massive time-saver for our field staff. Streamlining manual tasks and eliminating redundant workflows pays for the platform monthly."

Karen Parent
CEO, Cedar Organics

Ag-Intel

Thank you for your time.
See you in the Ag-Intel
portfolio case.

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