

INNOVATIVE and EFFICIENT CORN management

FORECAST
MODELS



TASK
MANAGEMENT



CROP
SCOUTING



MAYSDSS

POWERED BY
AGRICOLUS

FIELD
MAPPING



SATELLITE
IMAGERY



Increase
the quality and
quantity of corn



Reduce
management
costs



Prevent the
spread of pest
and diseases



Optimize the use
of water



Monitor fields,
even remotely



FIELD MAPPING

Geolocate the field on the map and draw it. Features will be immediately hooked. You can enable the cadastral map and enter sheet and parcel information.

Use one of the following methods to create your field.



Draw on map

Locate the plot on the map and draw it manually.

✓ Select



Automatic detection

Locate the plot on the map and enable automatic detection to map the field with just one click.

✓ Select



Upload files

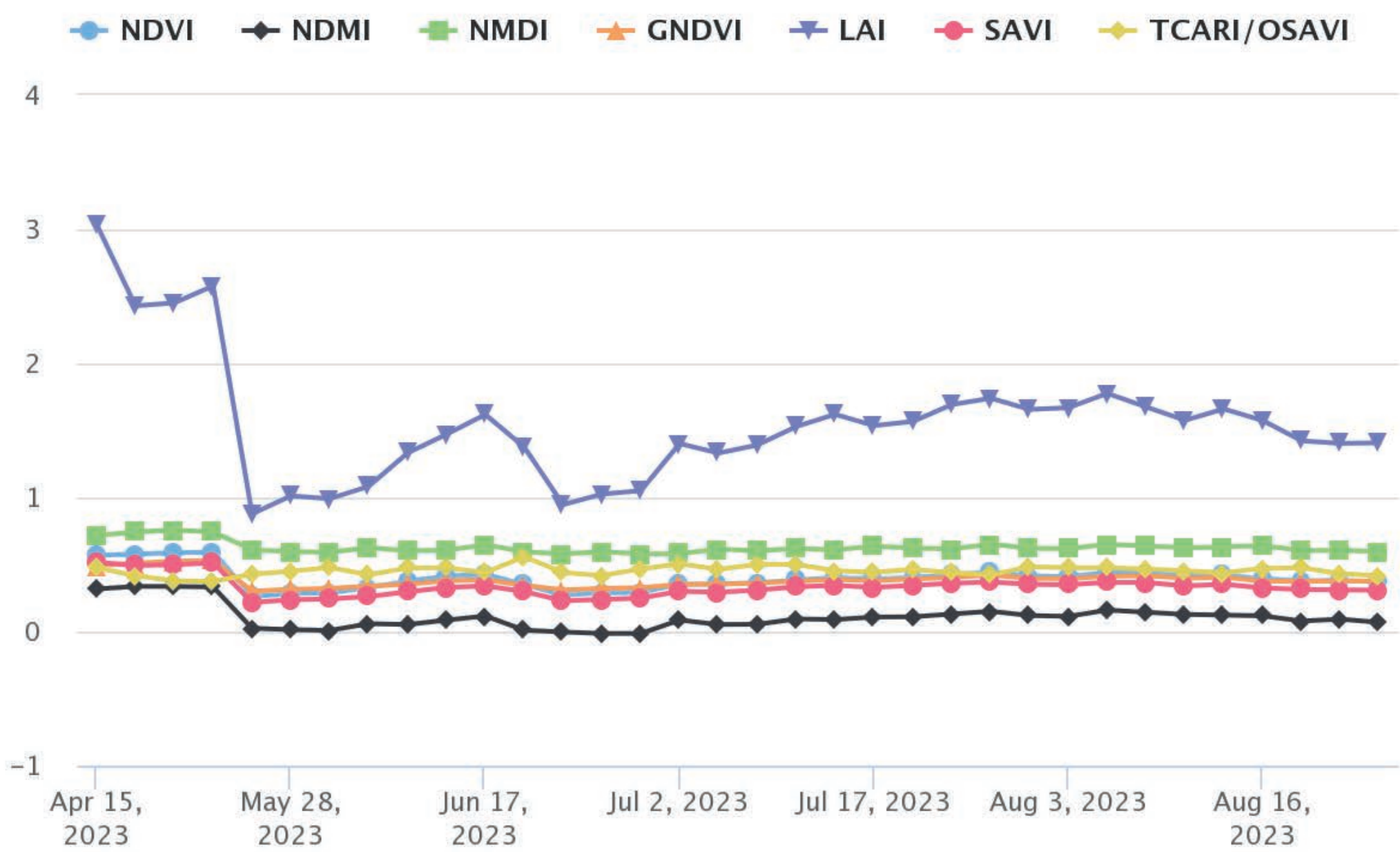
Upload a .shp or .kmz file.

✓ Select



SATELLITE IMAGERY

Consult Sentinel-2 satellite images with vigor, water stress and chlorophyll indices to assess the health of the crop and plan monitoring activities.



FEATURES

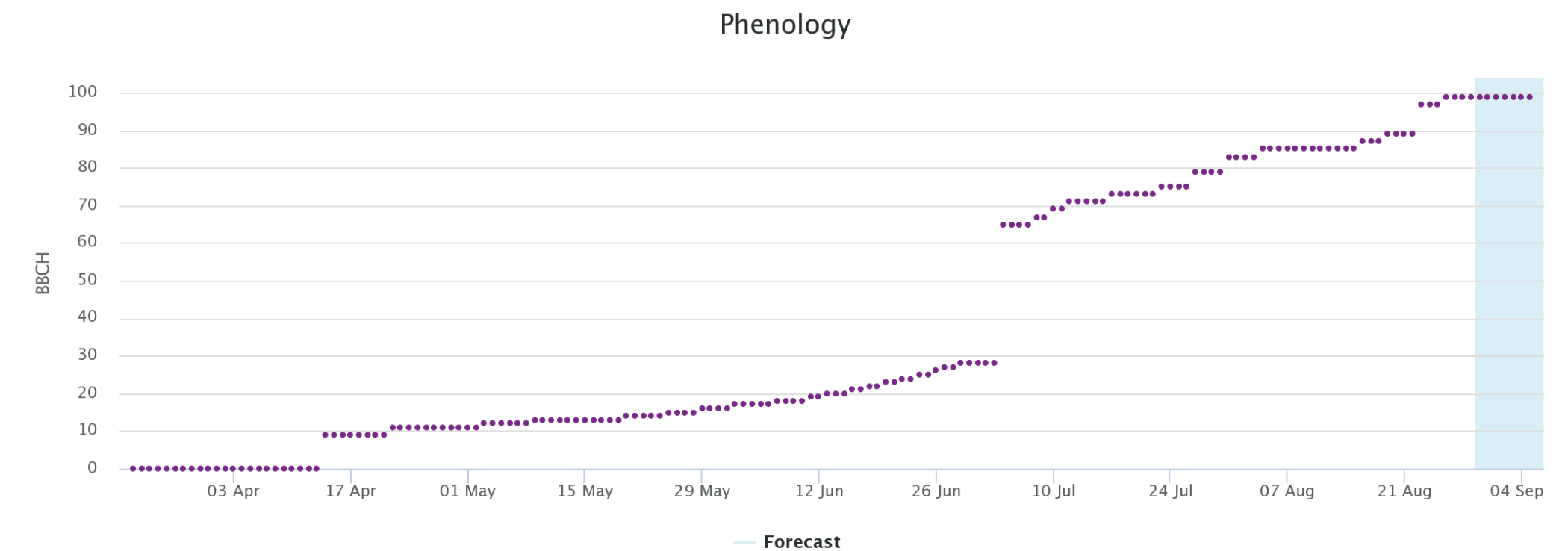


FORECAST MODELS



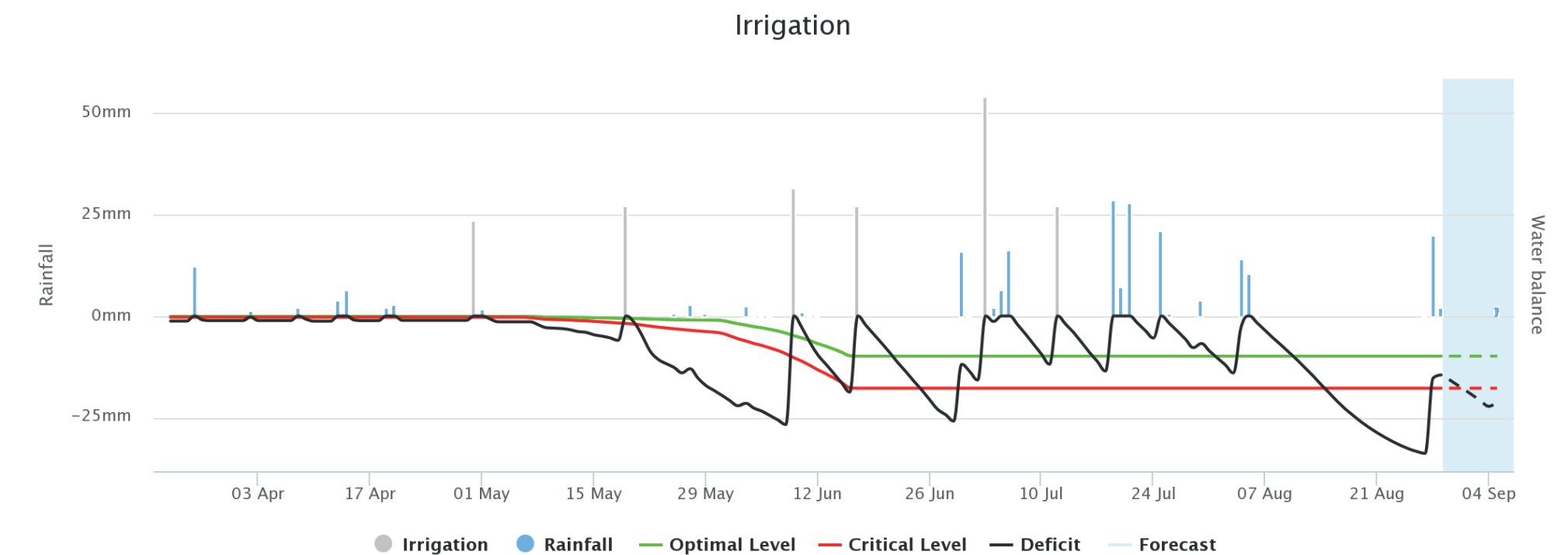
PHENOLOGY

Prediction of phenology to assess field needs in each development stage.



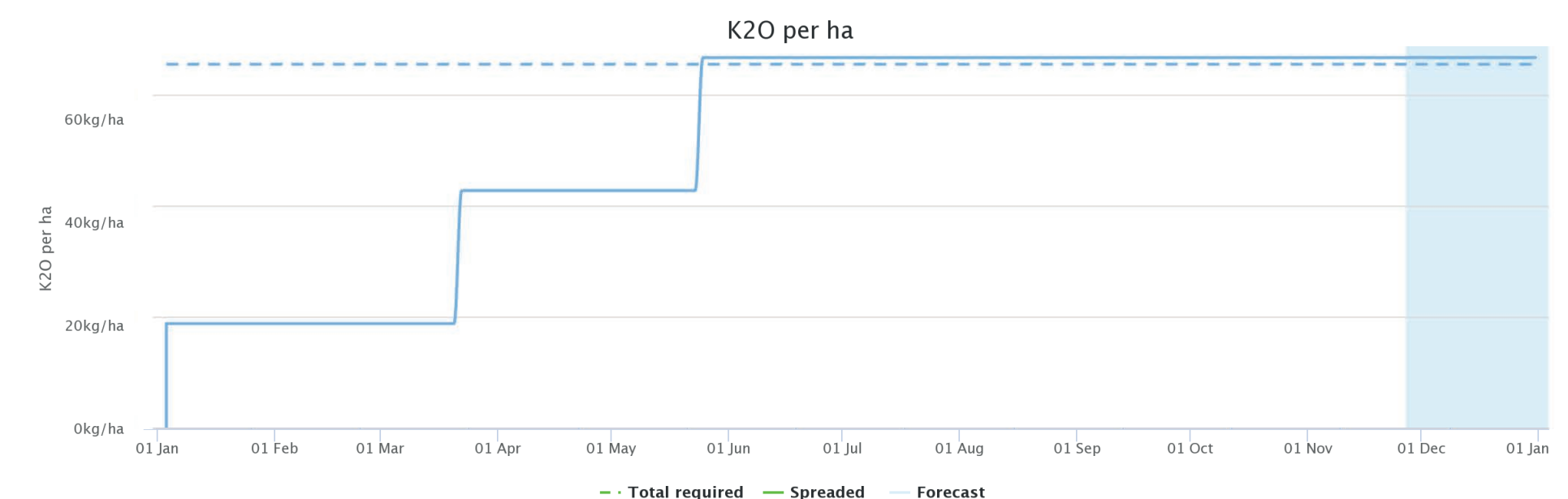
IRRIGATION

Evaluation of water requirements to carry out irrigation when necessary with the right amount of water.



FERTILIZATION

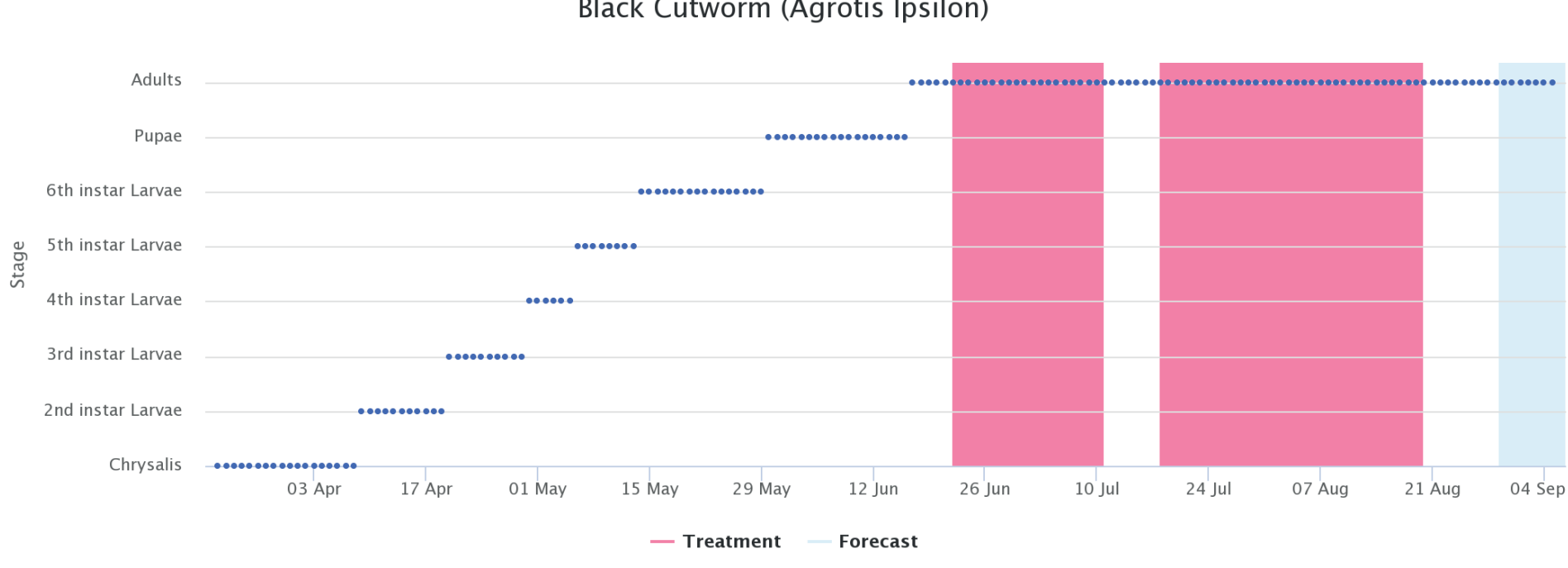
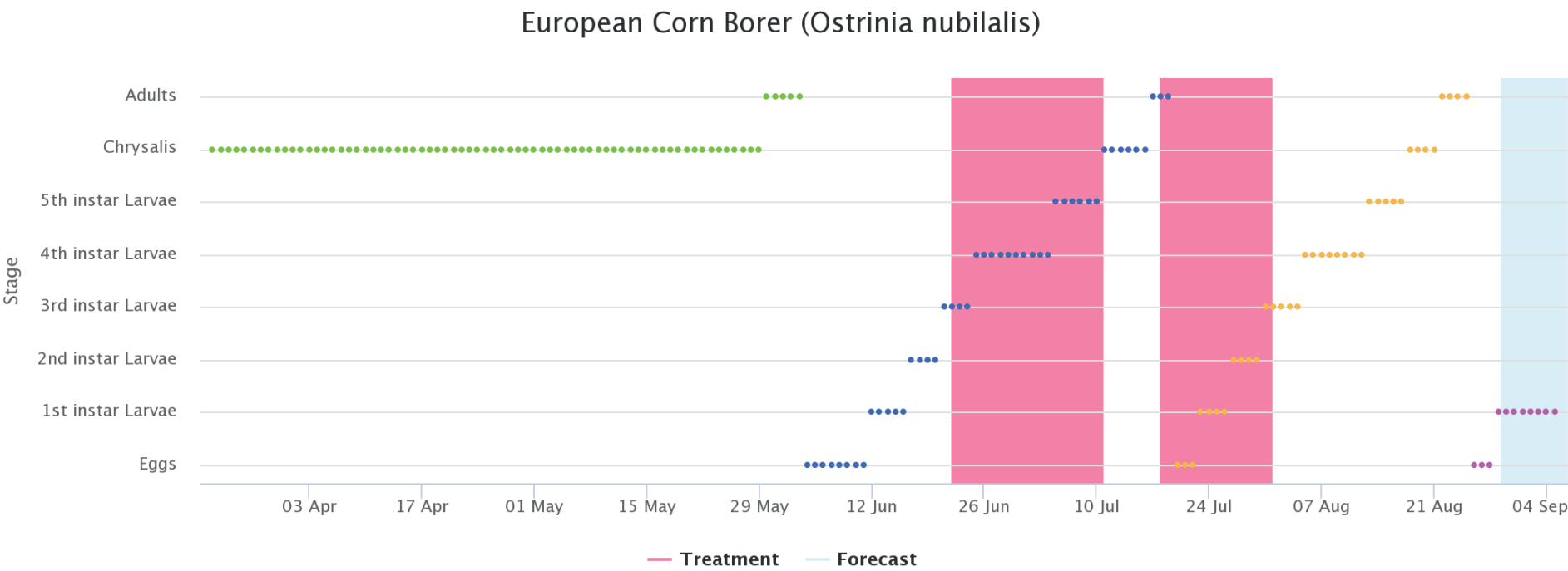
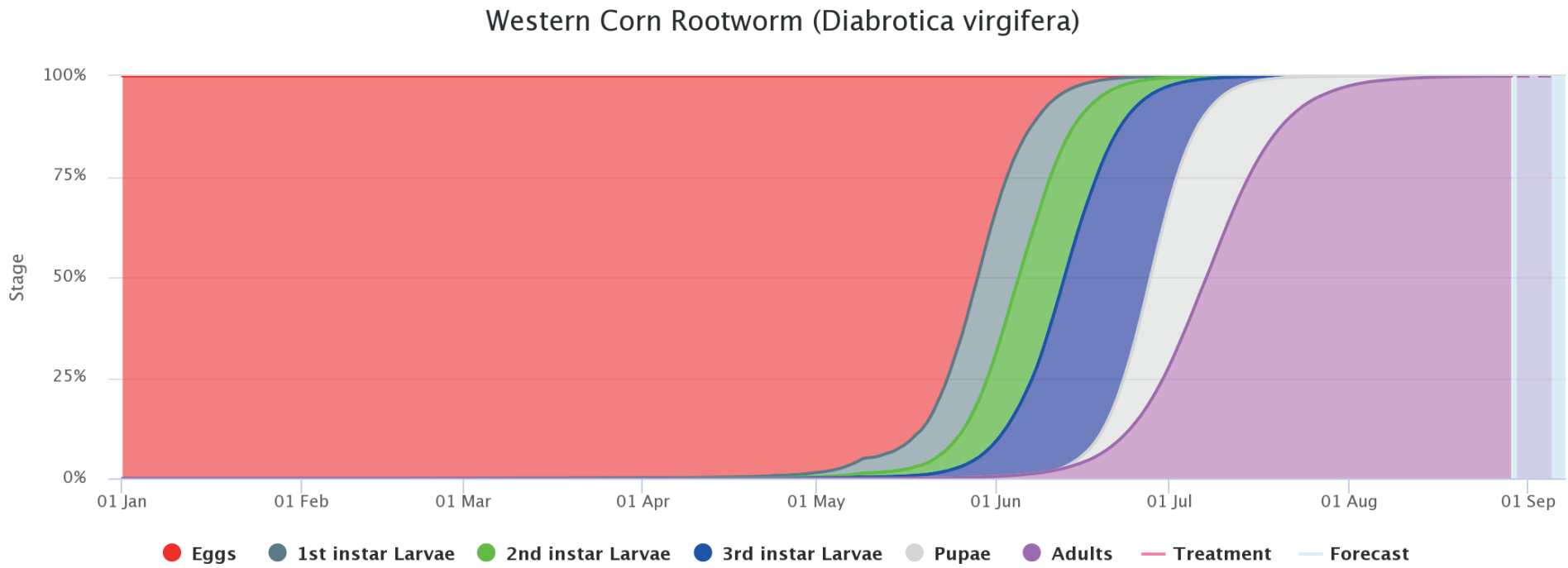
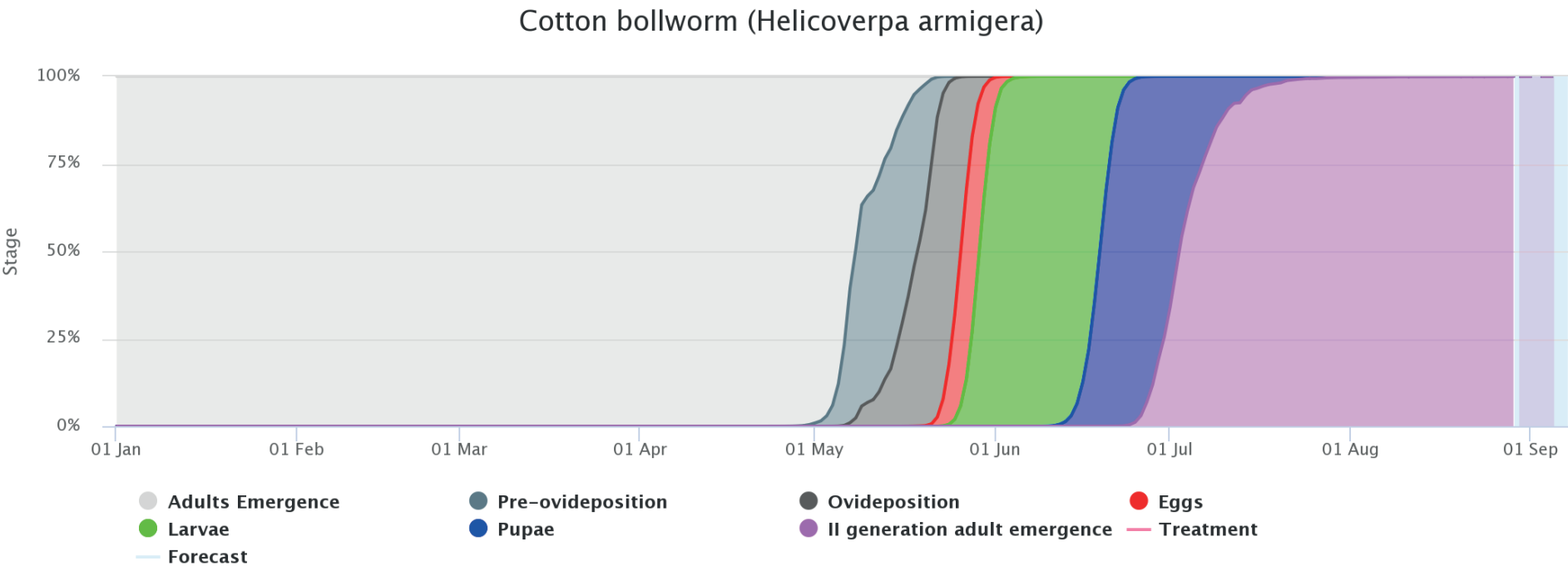
Calculation of the total nitrogen, phosphorus and potassium needs (kg/ha) required by the crop in order to obtain important suggestions on the doses of fertilizer to be applied.





INSECTS MODEL

Prediction of infestations to assess the risk of pest (**Helicoverpa armigera**, **Diabrotica virgifera virgifera**, **Ostrinia nubilalis**, **Agrotis ipsilon**) and act promptly. The defense forecast models interact with the registered treatments.



FEATURES



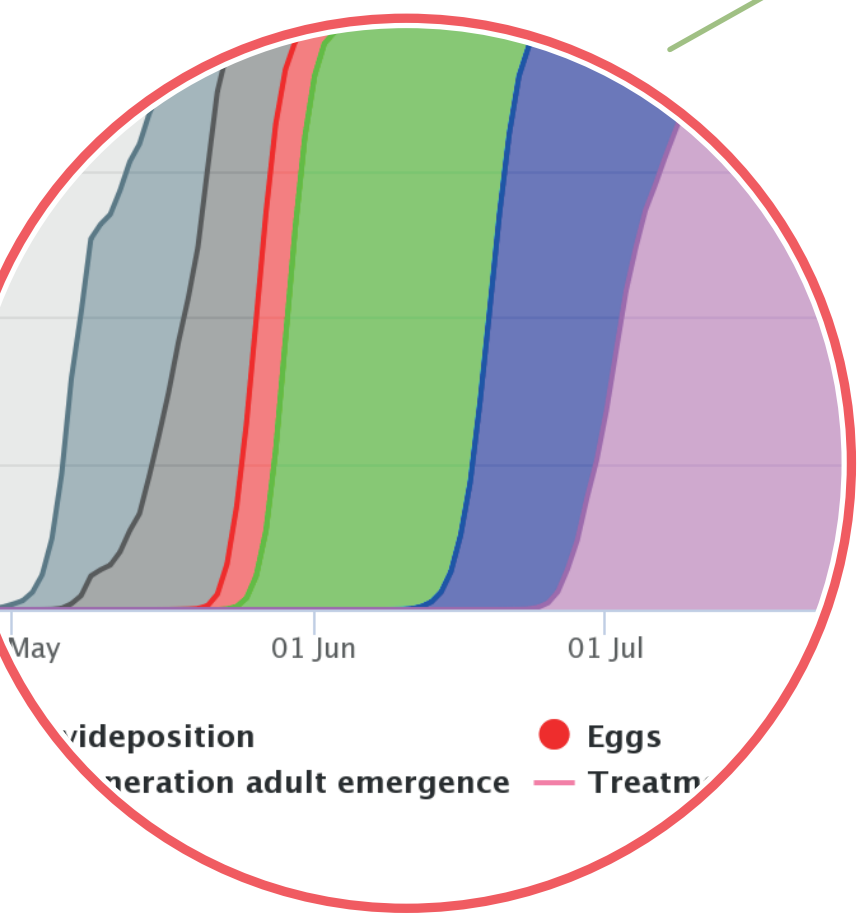
DECISION SUPPORT

Suggest operations to be carried out based on collected data.



ALERTS FROM DEFENSE MODELS FOR CORN

PREDICTION OF INFESTATIONS OF PLANT DISEASES AND INSECTS



No risk

Check the adult presence
Cotton bollworm (Helicoverpa armigera)

High risk

Check the adult presence
Corn diabrotica

High risk

Corn ostrinia

High risk

Check the adult presence
Black cutworm (Agrotis ipsilon)

0 % Presence

54.00 % Damage intensity

Insect

RISK DEGREE LEGEND

High risk

Alarm level

Male: upper and lower parts of tassel in flower/Female: stigmata fully emerged (BBCH 65)



FIELD ACTIVITIES ENTERED BY THE USER AND INTEGRATED INTO THE PHENOLOGY FORECAST MODEL



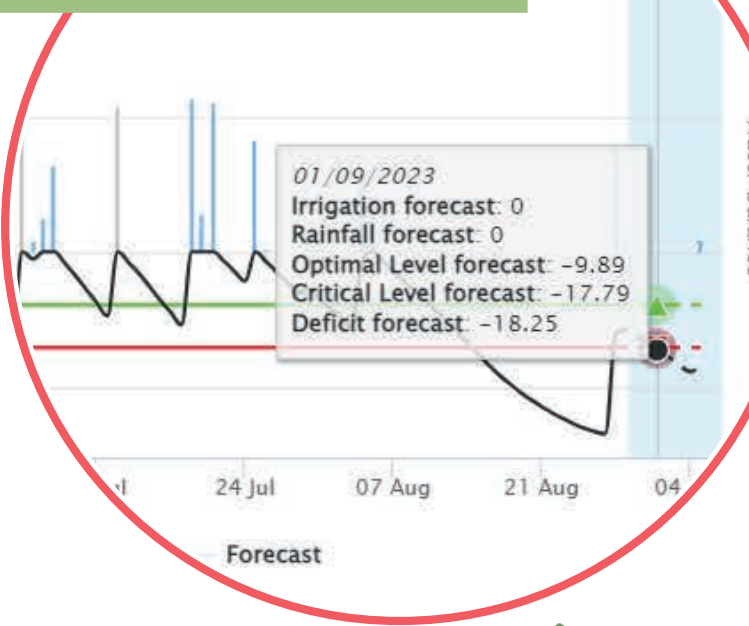
next 12 hours forecasting

0.00 mm
idro requirements



12-HOUR FORECAST

ESTIMATE OF IRRIGATION REQUIREMENTS FROM FORECAST MODEL





SUSTAINABILITY

Monitor the **economic** (yield, production) and **environmental** (water consumption, input control and farm biodiversity) **sustainability indicators** of your farm. You can set the level to be reached for each indicator and monitor how the work is going.

Economic

Environmental

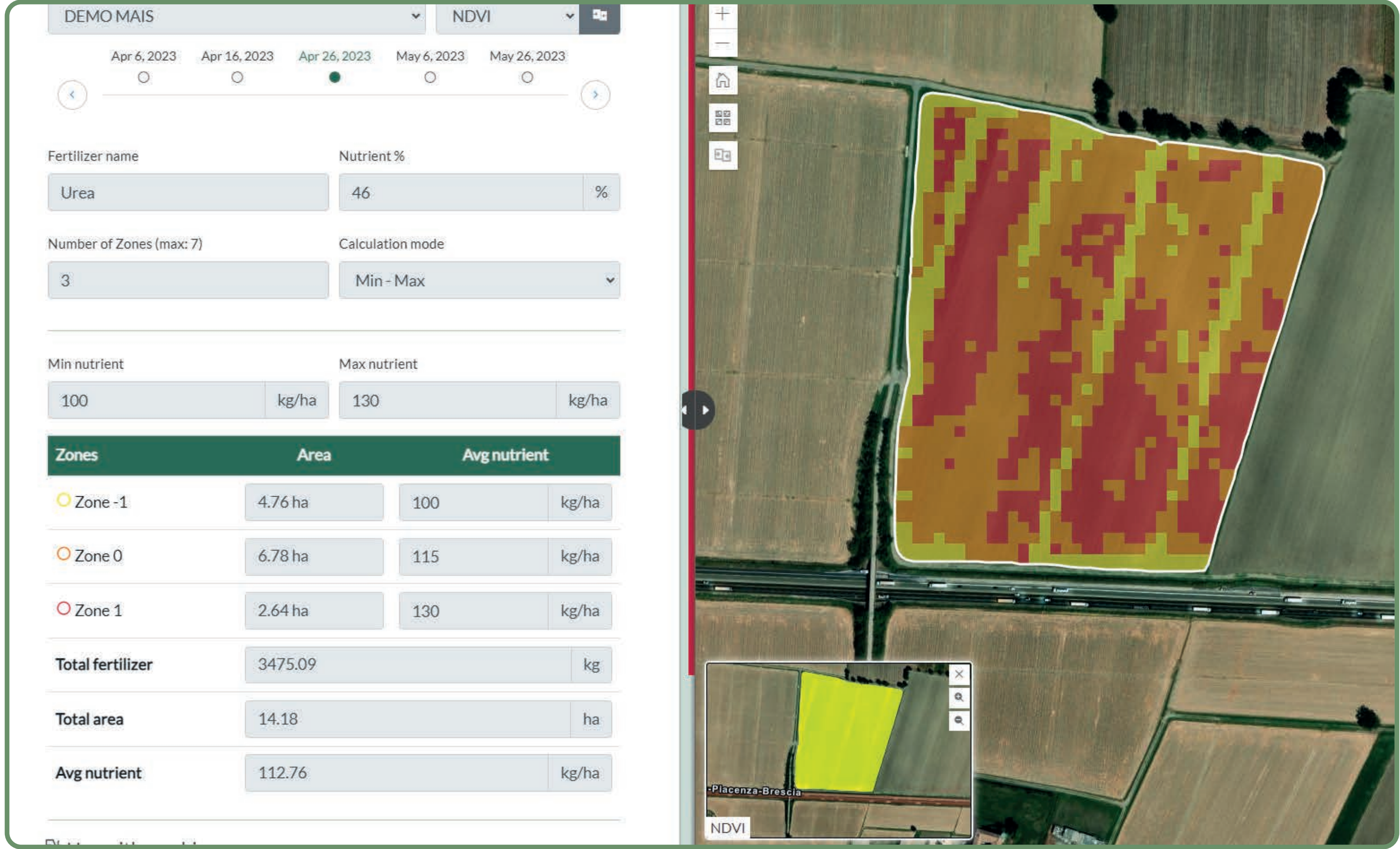
Targets List

ENVIRONMENTAL INDICATORS ENVIRONMENTAL ?

Environmental indicators focus on the impact of agricultural practices on the surrounding environment

Water

| Indicator | Value | Target | Status | |
|---------------------------|----------------------------|-------------------------------------|--------|--|
| Total water consumption | 20899.38 m ³ | Less than 459781.50m ³ | | |
| Average water consumption | 7404.53 m ³ /ha | Less than 7500.00m ³ /ha | | |
| Water use efficiency | 0 m ³ /t | | | |



PRESCRIPTION MAPS

Choose the most suitable vegetation index to draw up the prescription map and carry out a variable rate fertilization.

FEATURES



WORK



TASK MANAGEMENT

Create and assign tasks to be done in the farms to your collaborator in real time.



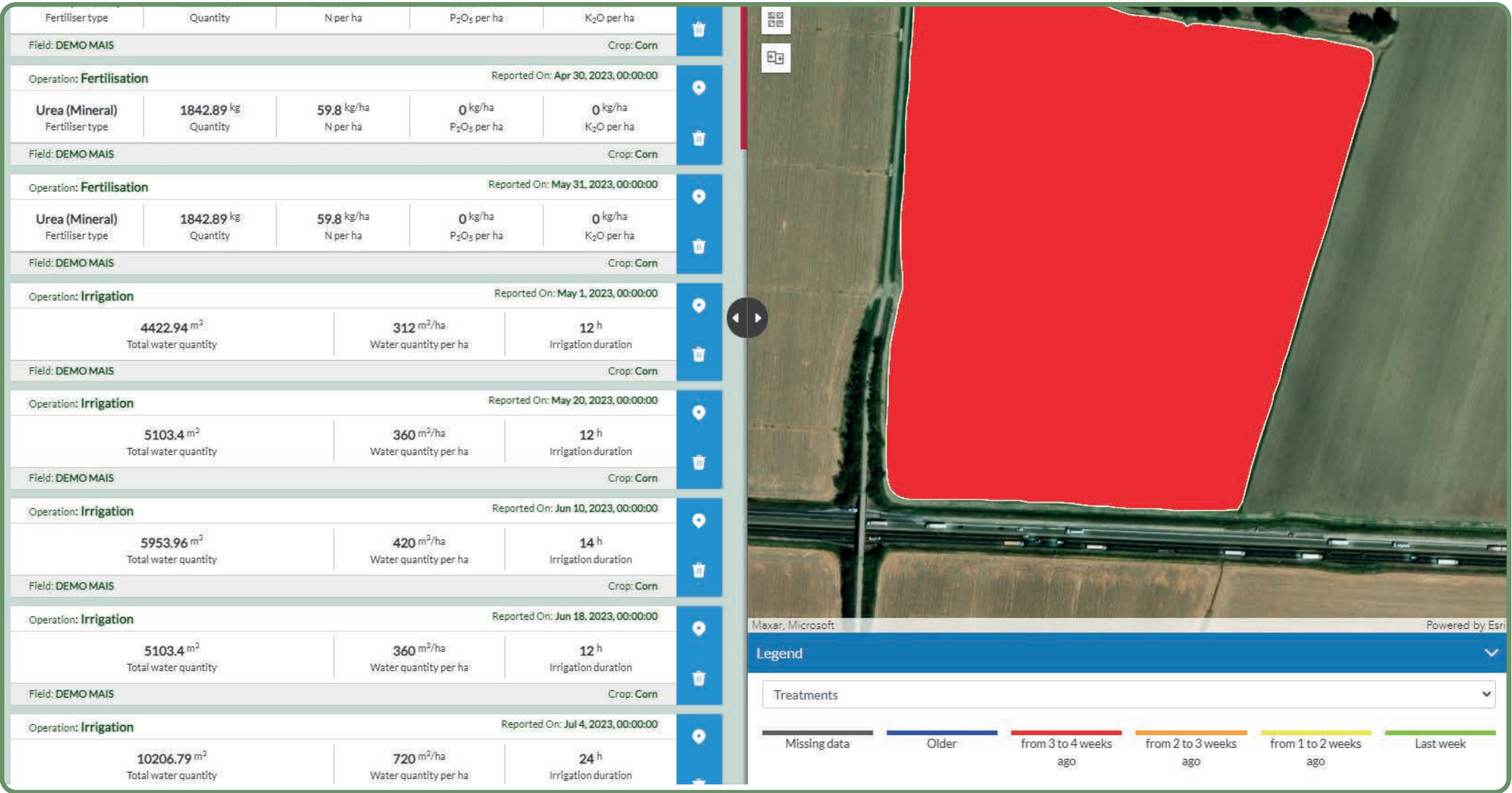
MACHINERY

Register your agricultural machinery, any problems and maintenance carried out. You can also connect them to Agricolus by using Agrirouter.



CROP OPERATIONS

Register where, how and when crop operations (treatments, fertilization, pruning, harvest) have been carried out. You can also access phytosanitary products database.



Lot code: 001a1



The QR code on the mask will allow easy access to the web page dedicated to the product traceability. In this way, all detailed product information can be consulted with great convenience

Landing page

<https://web.agricolus.co>



[Visit page](#)



PRODUCTION LOTS

Create and assign to each crop its own production lot to improve **traceability** of operations. A **QR code** is also generated that allows you to access and share the dedicated web page where you can consult all the information on the product.



CROP SCOUTING

Geolocate and register data from crop scouting by using the **mobile App** for phytosanitary monitoring and evaluation of crop development.



- ! ISSUES
- ⚠ DAMAGES
- 🕒 TRAPS
- 📷 CATCHES
- 🌱 PHENOLOGY
- 🐛 PESTS AND DISEASES
- 🧪 SOIL ANALYSIS

FEATURES



WEATHER



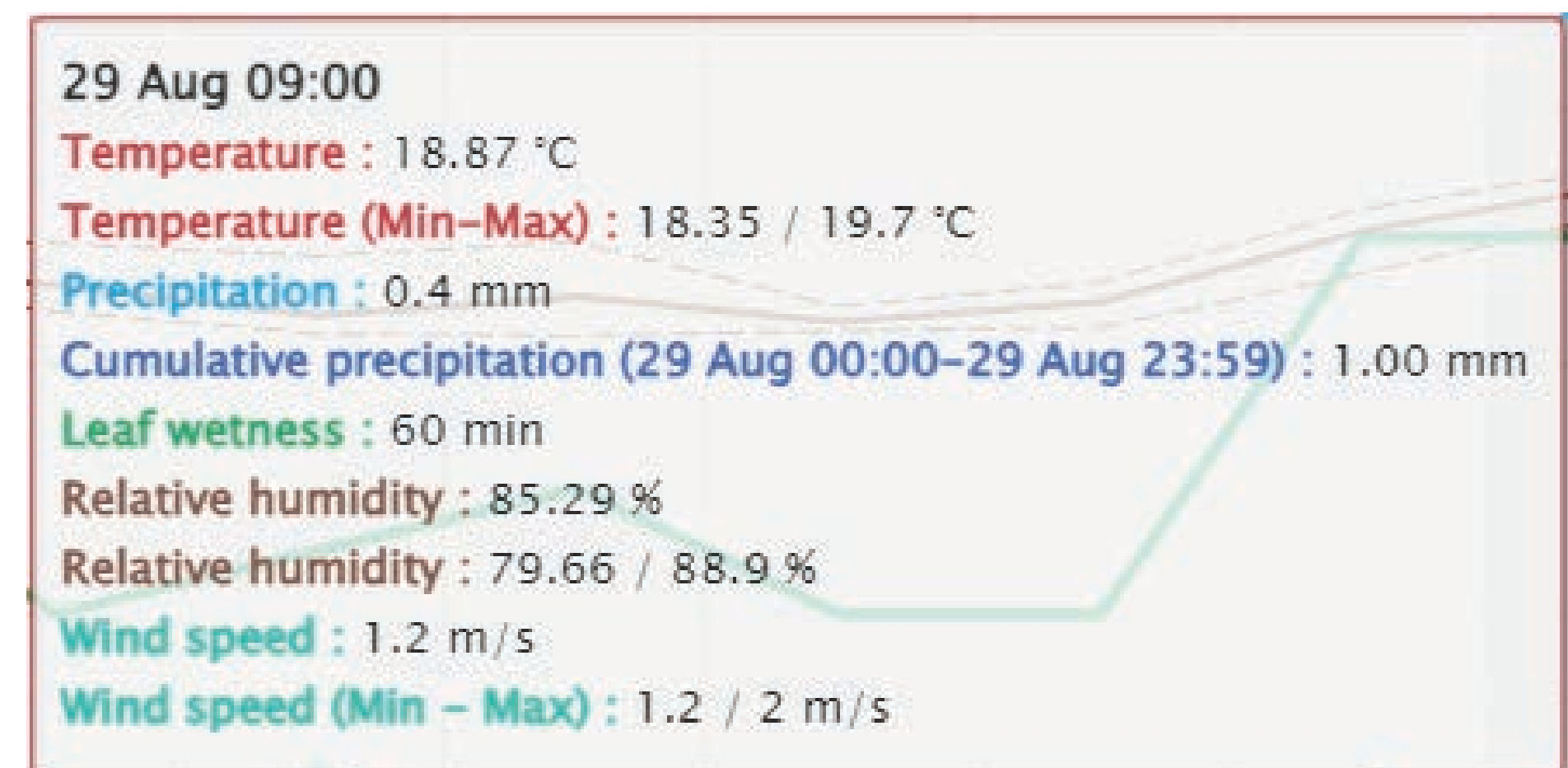
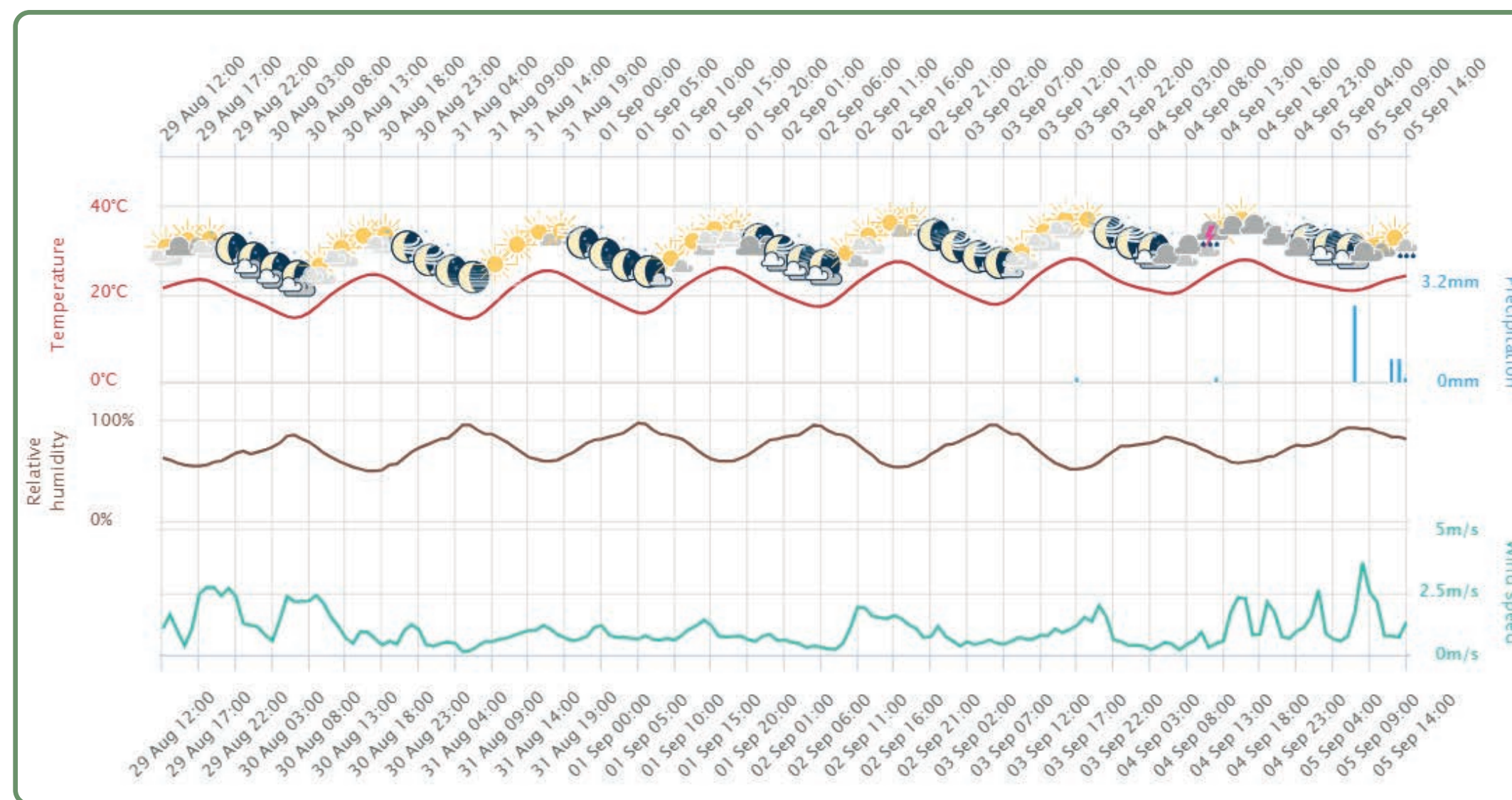
WEATHER FORECASTS

Consult professional weather forecasts up to 7 days updated every hour: temperature, humidity, wind speed, rainfall.



WEATHER STATIONS

Virtual weather station included; physical weather stations and sensors can be purchased or integrated, if already present in the company.





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FIND OUT MORE  <https://www.agricolus.com/en/>