



What happened to John Doe ?





How will he fix it ?



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IMERG: Meteorology, Precipitation, Earth, Historical data, Daily updates

SAR: Infrared waves, Clouds penetration, Rain, Day and night, Soil moisture

SMAP: Water level, Flood prediction, Soil moisture, Hydrology, Combined with SAR

MISR: Photographs, Solar radiation, Earth surface

MODIS: Multispectral images, Land use changes, Vegetation health, Hydrological structures

VIIRS: Multispectral images, Digital growth, Data collection

ASTER: Electromagnetic images, Surface temperature

ECOSTRESS: Plant temperature, Soil water level, Water stress, Satellite





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Interface

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More Details

Important data

Total Area
In Hectares (ha)

4.5

Soil Moisture

+10% from yesterday

63%

Temperature

+3% from yesterday

28 °C

Pests & Diseases

+2% from yesterday

1

More Details

Important data

kg/month

2500

2000

1500

1000

500

0

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

All my agricultural lands

ID	Name	Parameters	Production
01	Olive Groves 1	Orange bar	15%
02	Olive Groves 2	Blue bar	17%
03	Olive Groves 3	Yellow bar	19%
04	Olive Groves 4	Green bar	29%

More Details

Enter text... ➡

Hello! I am Agr.ai, your agricultural assistant. I am here to help with diagnostics, solutions, and production estimates. Share details about your crop, and I will provide you with precise advice to improve your yield and maintain the health of your plants.

I have an avocado plot in the Axarquía region of Málaga. I've noticed damage to the leaves, and some areas of the soil look very disturbed. I think it could be due to insects, but I'm not sure. Can you help me identify the problem?

I have analyzed the thermal images and detected a pattern of stress in the leaves of the crop, indicating possible physical damage. I have also found abnormal activity in the soil according to the multispectral images, which corresponds with the described damage. The combination of these data, along with the visual inspection of the detailed images, suggests that your crop is being affected by a plague of crickets, grasshoppers, and locusts. These insects usually affect the base of the plants, which aligns with the observed symptoms.

Chat bot



The screenshot shows a mobile-style chat interface for AGR.AI. At the top right is a user profile icon with a small red notification dot. Below the header is the AGR.AI logo. The main conversation area contains two messages. The first message is from a user asking about crop problems and harvest estimates. The second message is a detailed response from the chatbot, which includes an analysis of vegetation conditions, visible pests, and data from various APIs. The response highlights a forecast of moderate temperatures, soil pH levels, satellite imagery, pest history, and water resources. At the bottom is a green input bar with a placeholder "Enter Text..." and a send button with a right-pointing arrow.

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My crop has some unusual bite marks on the leaves. I also noticed, after reading the newspaper, that there's a plague of grasshoppers, locusts, and crickets nearby. I'd like to get solutions as quickly as possible to control this. Additionally, I'm still having the water issues I mentioned earlier. By the way, if you can give me an estimate of what I can harvest in the next 6 months, that would be even better

We will proceed with the evaluation of the olive cultivation in the Guadalhorce Valley based on the data provided:

Crop Status Analysis

Vegetation Condition: Real-time images and observations indicate normal vegetation color, which suggests that the olive trees are in a healthy state in terms of their foliar development. The flowering stage is key to production yield, as it determines future fruit formation.

Visible Problems: The presence of bites on leaves and branches, as well as a large number of grasshoppers, locusts, and crickets, suggests a pest problem that may affect the crop's productivity.

Data obtained from APIs:

- Climate (Climate API): Forecast of moderate temperatures, with the possibility of light rain in the next 7 days. This weather is favorable for flowering, but attention should be paid to potential sudden temperature drops, which could have negative effects.
- Soil (Soil API): Moderate pH between 6.5 and 7, with adequate but slightly limited soil moisture, and low nitrogen levels. This may indicate the need for nitrogen fertilization to support growth during this crucial flowering phase.
- Satellite Images (NDVI API): NDVI values are consistent with healthy vegetation, although there is a slight variation in some areas of the olive grove. This may be associated with pest distribution or small patches of water stress.
- Pest History (Pest API): Recent outbreaks of locusts and grasshoppers have been detected in the region, which is consistent with field observations.
- Water Resources (Water Resources API): The available water volumes are sufficient for the crop's current needs, although water stress may increase if irrigation is not well managed in the coming months, especially with the arrival of warmer use...

Enter Text... 





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Thank you