CSIR's Precision Agriculture Information System (PAIS)

Empowering South African Agriculture with 4IR Technologies to unlock smart agriculture

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science & innovation
Department:
Science and Innovation
REPUBLIC OF SOUTH AFRICA

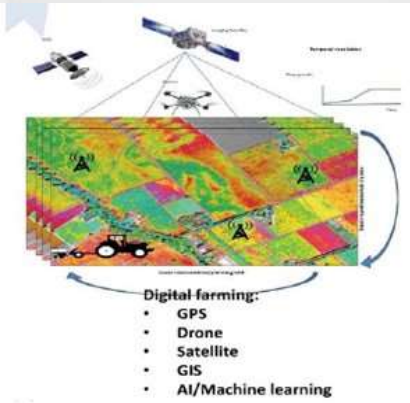
CSIR
Touching lives through innovation

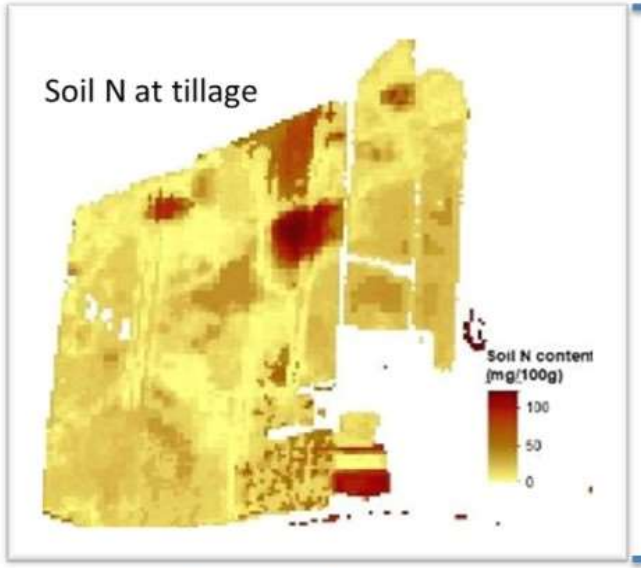
What is Precision Agriculture (PA)

- PA is about:
  - **Observing**
  - **Measuring and**
  - **Responding**

to within-field differences in
Soil and crop health in
Near real-time.

- The maps offer **actionable insights**



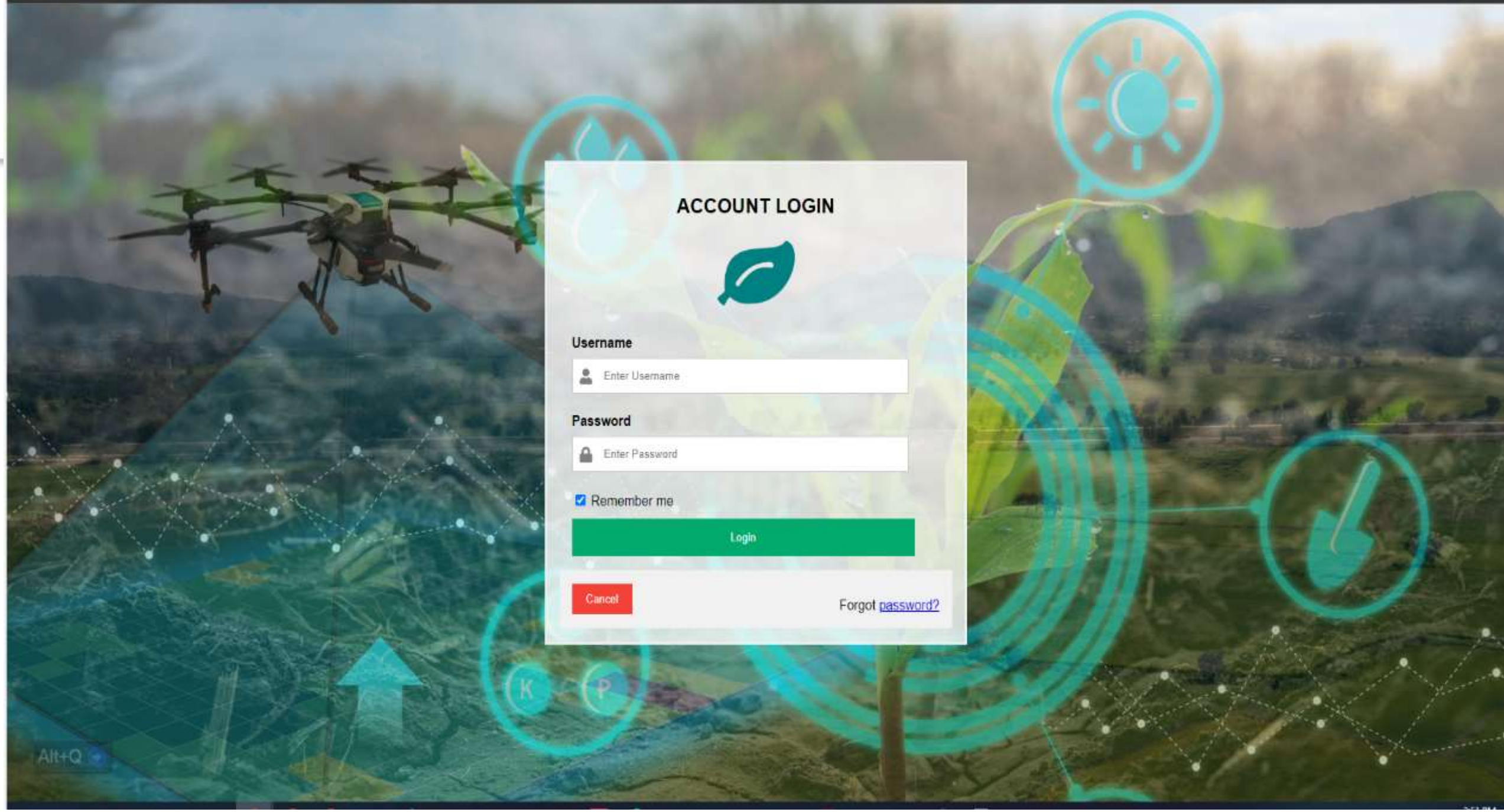


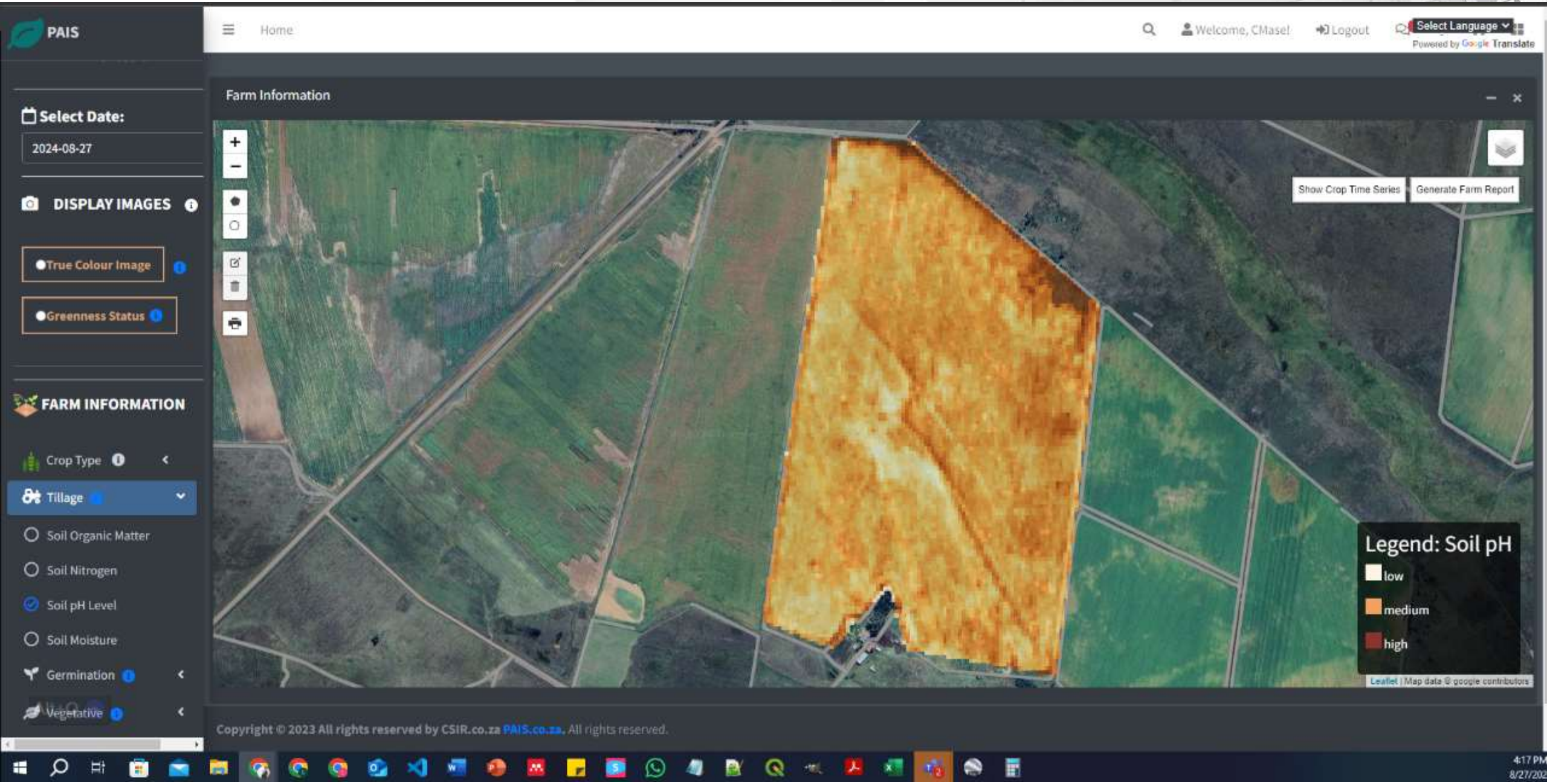
Example

Benefits of PA

Action: Targeted application of N (at right time, place & amount)

Benefits:
(1) Reduced use of N
(2) Reduced cost of production
(3) Higher profits to industry
(4) Lower pollution (benefit to society).


ACCOUNT LOGIN
Username
Enter Username
Password
Enter Password
Remember me
Login
Cancel
Forgot password?
Alt+Q


PAIS
Home
Welcome, CMase!
Logout
Select Language
Powered by Google Translate
Farm Information
Select Date:
2024-08-27
DISPLAY IMAGES
True Colour Image
Greenness Status
FARM INFORMATION
Crop Type
Tillage
Soil Organic Matter
Soil Nitrogen
Soil pH Level
Soil Moisture
Germination
Vegetative
Show Crop Time Series
Generate Farm Report
Legend: Soil pH
low
medium
high
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PAIS
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Germination
Vegetative
Potential Yield
Potential Crop Yield
Post Harvest
CLIMATE INFORMATION
Farm Information
Show Crop Time Series
Generate Farm Report
Mean Yield (tons/ha): 3.81
Total Yield (tons): 334.63
Total Area (ha): 87.93
Legend: Potential Yield
low
medium
high
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The Digital Agriculture Revolution

Isn't it time to leapfrog?