

# Elixir

Smart Irrigation and Agriculture System

**User Manuel** 

\*This manual can be used for Elixir Portal version 1.0.0 and newer.



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#### 1. General features

#### 1.1. Access to Interface

Elixir is a web-based application. It can be accessed from <a href="http://elixirapp.live/">http://elixirapp.live/</a>

**Note**: The browser recommended for Elixir is Chrome and Firefox, and the screen resolution is 1920 \* 1080.

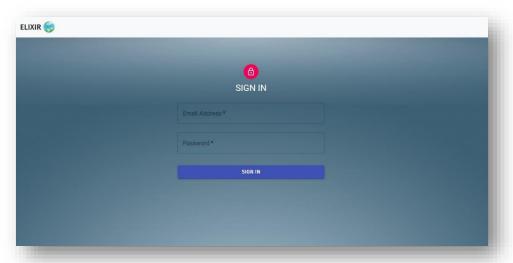


Figure 1: Login Page

#### 1.2. Login

The user must enter their Email and Password and click the SIGN IN button to access Elixir.



Figure 2: Sign in Panel

**Note**: If the wrong **Email** or **Password** information are entered an error message will be given.



**Note**: If these are correct than a simple message will prompt the user that the login is successful and the suer will Signed In.

#### 1.3. Navigation Bar

After logging into the application, navigation bar can be displayed on the top side of the page. When a user wants to access a page through the navigation bar, they can click on the name of the module they want to access, then they will be directed to the relevant page.

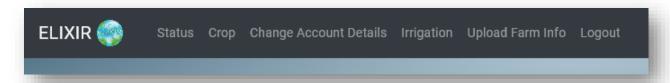


Figure 3: Navigation Bar

Note: The Elixir Logo will take you to the home page.

#### 1.4. Logout

To Logout from Elixir, use the **Logout** button option located in the upper left part of the navigation bar.

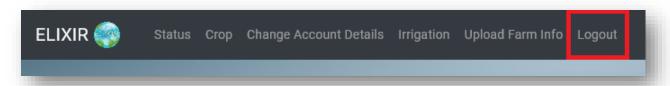


Figure 4: Logout Button

#### 1.5. User Profile

To access the user profile page, use the **Change Account Details** option located in the upper left part of the navigation bar. Then click to access it.

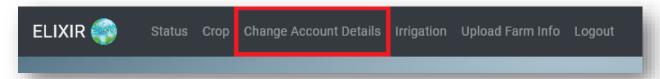


Figure 5: Access to Account Details



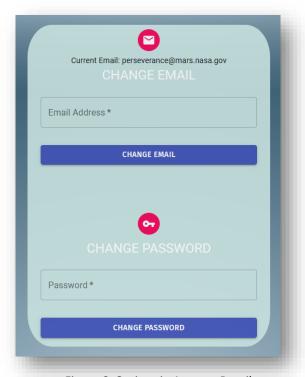


Figure 6: Options in Account Details

This section has two options Change Email and Change Password.

#### **Change Password:**

The user can change his/her password within this panel. To do this, enter the new password in the **Password** fields. In order to change the password, the following criteria must be met:

- Password must contain at least 8 characters.
- Password must contain both numerical and alphabetical characters.

If these conditions are met the user will be able to change their passwords by clicking the **Change Password** button.

The password is not updated in the following situations and the user is warned:

• The new password does not meet the requirements.

Note: Your initial password will be sent to your Email address, that was given to the Admins of Elixir.

**Note:** For security purposes the Admins do not know your password and the initial password that was set will be sent automatically.



#### **Change Email:**

The user can change his/her **Email** within this panel. To do this, enter the new Email in the **Email** fields. In order to change the Email. In order to change the password, the following criteria must be met:

• Email must be a valid email address.

If these conditions are met the user will be able to change their mail by clicking the **Change Email** button.

The email is not updated in the following situations and the user is warned:

• Entered email is not valid email address.

#### 2. Dashboard

Dashboard is an interface created to give general information to the user after logging to the system.



Figure 7: Dashboard



This page shows the last **Current Temperature**, **Soil Moisture**, **Daily Temperature**, **Heat Stress Level**, **Frost Risk**, **Pesticide Suitability**, **Sun Exposure** and **Weather Forecast**. The user can click on the charts to see more detailed information about the shown values.



Figure 8: Sun Exposure

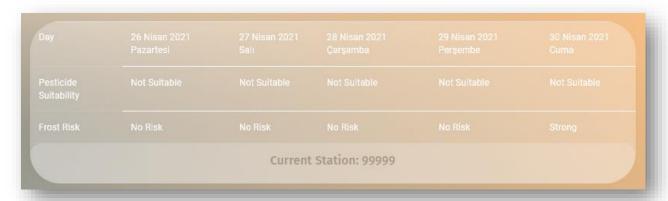


Figure 9: Table for Pesticide Suitability and Frost Risk



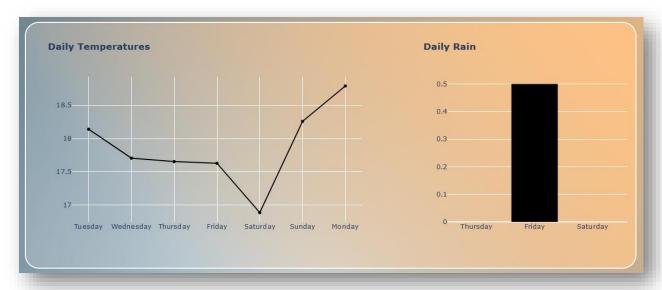


Figure 10: Information Charts

There are more than one Charts here. So, to move between them you can drag or click the buttons to change the chart.



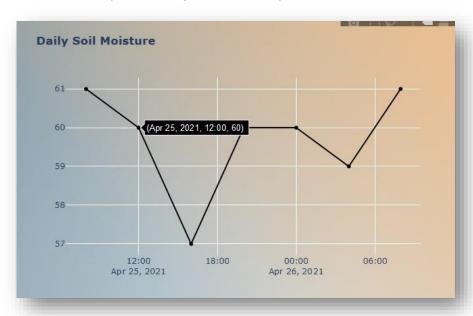


Figure 11: Chart Hover

The user can hover above them for more info.





Figure 13: Stress Table



Figure 12: Dark Mode for Status Page

This page also changes to dark mode, indicating that the Sun Exposure level is lower than expected.



## 3. Irrigation

To access the Irrigation page, use the **Irrigation** option located in the upper left part of the navigation bar. Then click to access it.

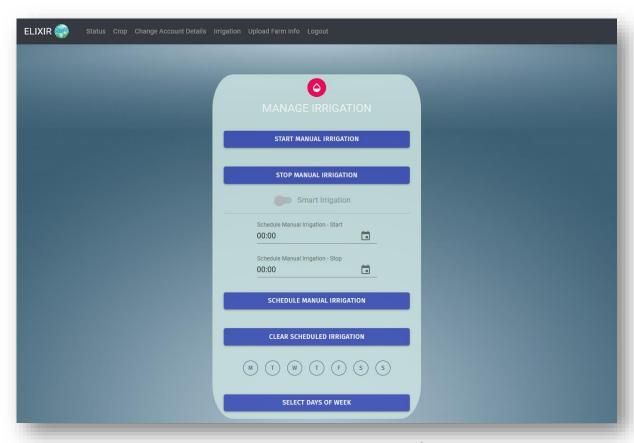


Figure 14: Manage Irrigation Panel

To **Start** your irrigation system, click on the **START MANUAL IRRIGATION** button.

To **Stop** your irrigation system, click on the **STOP MANUAL IRRAGATION** button.

#### 1.6. Smart Irrigation

The Smart Irrigation functionally can only be activated once a crop information has been uploaded for your farm.

The smart irrigation functionally is Elixir's unique ability to automate irrigation of your farm. Once activated Elixir checks the following:

- Temperature of the surroundings.
- Humidity level of your crops.
- Rain forecast and current rain checks.





Figure 15: After Crop Info is Uploaded

Detailed information about Uploading Crop Information will be given in Section 4.

Once **Crop Information** is uploaded and **Smart Irrigation is activated**. The user will be prompted with the Uploaded Information and give information of what is about to happen.

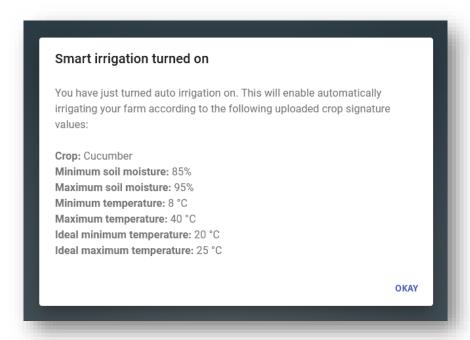


Figure 16: Smart Irrigation Prompt



Important Note: Once Smart Irrigation is enabled, Scheduled Manuel Irrigation functionally will NOT work.

## 1.7. Schedule Manuel Irrigation

INFORMATION
IMAGE NORMAL PANEL
IMAGE TIME SELECTION
EXPLAIN WEEK
NOTE PROMTS
EXPLAN CHECKS/REQ like PASSWORD

# 4. Upload Farm Info

IMAGE PANEL
EXLAIN WHAT IT DOES
NOTE PROMTS

# 5. Crop Panel

IMAGE GENERAL PANEL
EXPLAIN TOP 3 BOXES
EXPLAIN TEMP COMP
EXPLAIN SOIL COMP
EXPLAIN IDEAL TEMP COMP
EXPLAIN INFORMATION TABEL