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23/09/2021

Software Version

0.3.9.3

Clyde River Application

User Manual

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# AuthorsIntroduction

Welcome to the Clyde River Desktop Application. This application will provide you with the capability to view Salinity, Temperature and Rainfall data from sensors placed on the Clyde River. As well as a number of other handy features.

This application has been designed in the Java language and therefore should be highly compatible with whatever system you are running.

This user manual has been provided for your convenience and should be able to sufficiently guide you through the necessary steps to explore the features of this application and assist you with whatever steps you may wish to take.



# Authors

# Installation & ConfigurationAuthors

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1. Installation & Configuration

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This application and accompanying user manual has been developed and designed by Naomi Thompson.



# 1.3 Installation & Configuration

# Installation & Configuration

# Installation & Configuration

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# Installation & Configuration

***[This section still needs to be completed]***

# Features & Capabilities

# Features & Capabilities

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# Features & Capabilities

# Features & Capabilities

# Features & Capabilities

This software has the following features & capabilities:

* Ability To Check Current Salinity Levels for a Single Sensor
* Ability To Check Current Salinity Levels for All Sensors
* Ability To Check Current Temperature Levels for a Single Sensor
* Ability To Check Current Temperature Levels for All Sensors
* Ability To Check Current Rainfall Levels for a Single Sensor
* Ability To Check Current Rainfall Levels for All Sensors
* Ability To Set A Favourite Sensor
* Ability To Change A Favourite Sensor
* Ability To View A Summary of All Sensors At Once \*
* Ability To See Harvest Location Status
* Rainfall Data Viewable To A custom Time range
* Provides A Convenient Landing Dashboard that shows a summary of the favourited location
* Provides All Data In Graphs
* Able To load custom data from a file \*

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# 2.1 Navigating The Application

# Features & Capabilities

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# Features & Capabilities

# 2.1 Navigating The Application

# Features & Capabilities

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# Features & Capabilities

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Before you get started with your brand new application, you should become familiar with it’s layout.

Above you will notice we have an annotated image to help you out.

Next we will talk about each of the identified parts to help you understand the application better.

The Menu:

1. This Is The **Home** option. It will bring you back to this dashboard at any time.
2. This is the **Sensors** option. Selecting this will bring you to a screen with the sensors sorted into lists for easy access to individual sensors.
3. This is the **Data** option. Under here you can find access to the different data types.
4. This is the **Exit** option. It will close the application at any time for you.
5. This is the **All Salinity Levels** option. It will allow you to access a summary of the salinity levels across all sensors.
6. This is the **All Temperature Levels** option. It will allow you to access a summary of the temperature levels across all sensors.
7. This is the **All Rainfall Levels** option. It will allow you to access a summary of the Rainfall levels across all sensors.

The Content:

1. This is the window **Title**. It will tell you where you are within the application
2. This is your **Favourite Sensor**.
3. These are **Graphs**. They are directly linked to your *Favourite Sensor*. They will provide you with a quick summary of the sensor.

# 2.2 Viewing All Sensors

# Features & Capabilities

# Features & Capabilities

# Features & Capabilities

# 2.2 Viewing All Sensors

# Features & Capabilities

# Features & Capabilities

# Features & Capabilities

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To view a list of all sensors that are currently available including all available harvest areas:

From The **Dashboard**

Go To The **Menu**

Select the *Sensors* option.

# 2.3 Viewing A Single Sensor

# Features & Capabilities

# Features & Capabilities

# Features & Capabilities

# 2.3 Viewing A Single Sensor

# Features & Capabilities

# Features & Capabilities

# Features & Capabilities

To View a Single Sensor, follow the instructions for ***Viewing All Sensors***

Then proceed with the following instructions.

Graphical user interface, application

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Then Simply locate the sensor you want to view.

And click on it.

Sensors are organized into 2 lists, **Harvest Area** sensors and **Non-Harvest Area** sensors.

Each List Is then organized geographically beginning with Wray Street at the mouth of the river and working progressively further down the river.

# 2.4 Changing Between Single Sensors

# Features & Capabilities

# Features & Capabilities

# Features & Capabilities

# 2.4 Changing Between Single Sensors

# Features & Capabilities

# Features & Capabilities

# Features & Capabilities

To change between individual sensors, begin by following the instructions for ***Viewing All Sensors***. Then proceed with the instructions for ***Viewing A Single Sensor***.

Then proceed with the following instructions.

Graphical user interface, table

Description automatically generated

At this point you should be looking at the information for a single sensor.

If you are not, then please start the process again and follow each step carefully.

If you look to the left of your window, you should notice a list on the left hand side. This list is organized geographically.

Look through the list to find the corresponding sensor you would like to view next and click on it.

You should now be viewing a different sensor.

You can confirm this by checking the window title has updated. The chart should also have updated.

# 2.5 Setting Up/Changing A Favourite Sensor

# Features & Capabilities

# Features & Capabilities

# Features & Capabilities

# 2.5 Setting Up/Changing A Favourite Sensor

# Features & Capabilities

# Features & Capabilities

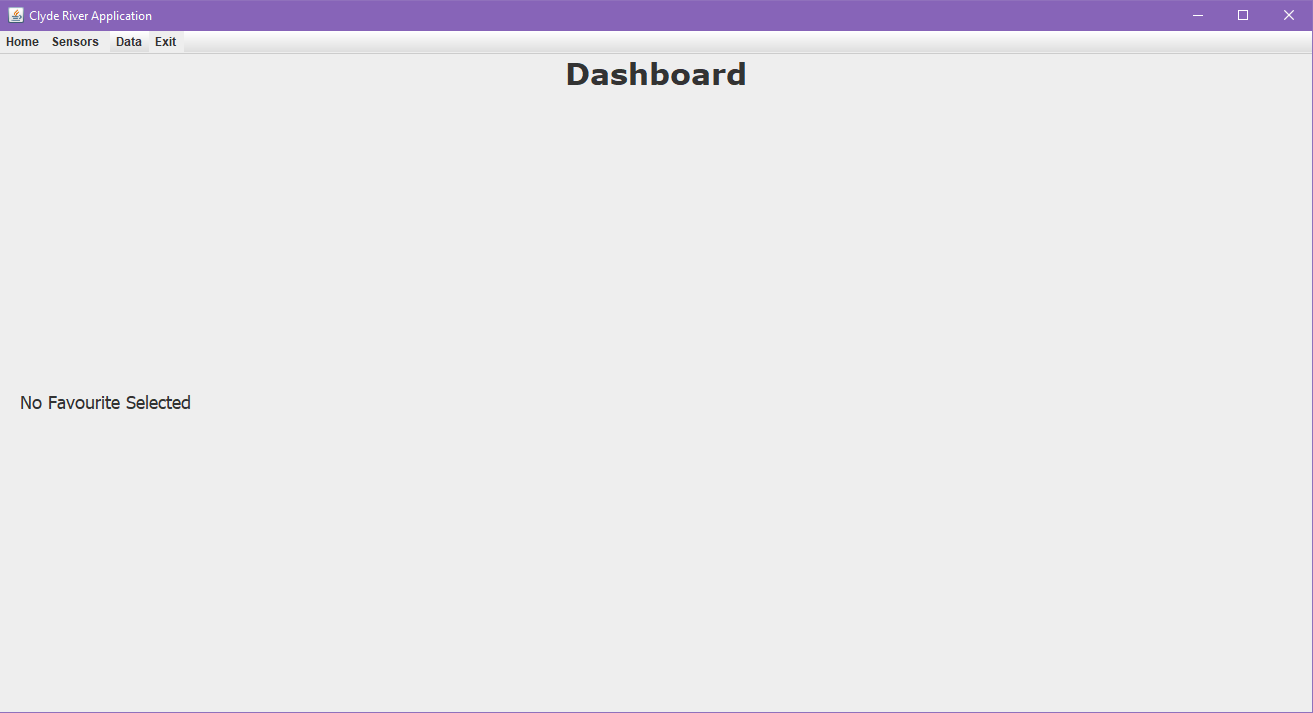
# Features & Capabilities

In Order to setup or change a favourite sensor you need to first determine into which group you fall.

Do you need to setup a favourite sensor for the first time? Or are you changing your favourite sensor?

Which group you fall into determines how far you go through the instructions.

**Set Up A Favourite Sensor**



From the Home Screen

Click On Either the *Sensors* items in the menu or the message prompting you to create a new favourite.

**Change An Existing Favourite Sensor**

Click on *Sensors* on the menu bar.

Continue following the below instructions:Graphical user interface, application

Description automatically generated

At this point you should be looking at a list of all available sensors.

Locate and Select the sensor you want to make a favourite.

Graphical user interface, table

Description automatically generated

should now be looking at that specific sensor.

Select the star (Or **checkbox** in this case) to the left of the **title**.

Congratulations if you had no favourite before, you have now setup a new favourite sensor.

If you have an existing favourite you will be prompted to check whether you intended to replace it. Select **Yes**.

# 2.6 Viewing Salinity Data

# Features & Capabilities

# Features & Capabilities

# Features & Capabilities

# 2.6 Viewing Salinity Data

# Features & Capabilities

# Features & Capabilities

# Features & Capabilities

Table

Description automatically generatedTo view salinity data, begin by going to the **Menu**.

Click on the *Data* option in the menu.

From there select the *All Salinity Levels* option to view a quick summary of the salinity levels across all available sensors.

To view a single sensor instead, simply click on it.

# 2.7 Viewing Temperature Data

# Features & Capabilities

# Features & Capabilities

# Features & Capabilities

# 2.7 Viewing Temperature Data

# Features & Capabilities

# Features & Capabilities

# Features & Capabilities

Table

Description automatically generated

To view salinity data, begin by going to the **Menu**.

Click on the *Data* option in the menu.

From there select the *All Temperature Levels* option to view a quick summary of the salinity levels across all available sensors.

To view a single sensor instead, simply click on it.

# 2.8 Viewing Rainfall Data

# Features & Capabilities

# Features & Capabilities

# Features & Capabilities

# 2.8 Viewing Rainfall Data

# Features & Capabilities

# Features & Capabilities

# Features & Capabilities

Table

Description automatically generated

To view salinity data, begin by going to the **Menu**.

Click on the *Data* option in the menu.

From there select the *All Rainfall Levels* option to view a quick summary of the salinity levels across all available sensors.

To view a single sensor instead, simply click on it.

# 2.9 Changing The Time/Date Range For Rainfall Data

# Features & Capabilities

# Features & Capabilities

# Features & Capabilities

[insert annotated screenshots]

To see a custom range for the rainfall levels of a single sensor, begin by following the instructions for ***Viewing Rainfall Data***.

You should now be looking at a single sensor showing current rainfall data.

If you look towards the bottom of the window, just below the graph, you should notice 2 icons that look a bit like a [calendar/clock/date thingy].

These are the date fields that allow you to set a custom time range. The one to the left is the time you want to begin from, the one to the right is where you want to end.

Simply pick the corresponding dates you need and the graph should automatically update to show the data corresponding to the new time range.

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# 3.1 Application Does Not Start

# Features & Capabilities

# Features & Capabilities

# Features & Capabilities

If the application does or will not start, the first thing you should check is that you have Java installed.

If you aren’t sure, then follow the following instructions for your operating system.

**Windows**

**[INSERT SCREENSHOT]**

Go to the start menu

Begin typing *command prompt*

Alternatively you can locate the *command prompt* manually if you know how to.

Once you have located the *command prompt*, make sure you open it.

You should now see a window like this:

**[INSERT SCREENSHOT]**

Next you want to run type in and run the following command.

So begin by typing in “java -version” (without the quotes).

Then press enter.

This command will return the current version of any java installations that currently exist on your computer.

Such as this:

**[INSERT SCREENSHOT]**

If you however get a different result more like this:

**[INSERT SCREENSHOT]**

Then you need to install Java. In which case you should go to the following website and download and install Java because the application requires Java in order to run.

Java Download: <https://www.java.com/en/download/>

**Mac**

**[INSERT SCREENSHOT]**

From the desktop, open the *Applications* folder

Scroll down and find the *Utilities* folder.

Open it and locate *Terminal*.

**[INSERT SCREENSHOT]**

You should now be looking at the above window.

From this point you need to type in the following command.

“java -version” (Without the quotes)

**[INSERT SCREENSHOT]**

You should get a message similar to this.

**[INSERT SCREENSHOT]**

If you get anything else then you need to download java.

Java Download: <https://www.java.com/en/download/>

**Linux**

Because Linux comes in many flavours, these instructions may not be a perfect fit for your operating system. That said, they should be similar enough that you can follow along, whatever your preferred version of Linux is.

Locate your Applications Folder/Menu.

**[INSERT SCREENSHOT]**

Locate the Utilities Folder

**[INSERT SCREENSHOT]**

Locate the Terminal application within.

**[INSERT SCREENSHOT]**

You should now be looking at the above window.

From this point you need to type in the following command.

“java -version” (Without the quotes)

If you get anything else then you need to download java.

Java Download: <https://www.java.com/en/download/>

# 3.2 Chart Does Not Display Data

# Features & Capabilities

# Features & Capabilities

# Features & Capabilities

If the chart is not displaying anything upon loading the application then please go to where you have installed the application.

Typically this will be located at **[INSERT FILE LOCATION HERE]**

**[INSERT SCREENSHOT]**

Within this folder locate the *data* folder.

If there is no data folder then this is why the chart shows no information.

If the folder exists but is empty, this would also explain why there is no data.

Please place any downloaded files into this folder in a corresponding folder for the file under the folder *sensor data*:

|  |  |
| --- | --- |
| **Sensor** | **Folder** |
| Buoy 01 – Wray Street | “*Sensor data/buoy 01 – wray street”* |
| Buoy 03 – Moonlight | “*Sensor data/buoy 03 – moonlight”* |
| Buoy 04 – Budd Island North | “*Sensor data/buoy 04 – budd island north”* |
| Buoy 05 – Snapper Point NW | “*Sensor data/buoy 05 – snapper point north-west”* |
| Fixed Depth – Rocky Point | “*Sensor data/fixed depth – rocky point”* |
| Buoy 08 – Angry Man Point | “*Sensor data/buoy 08 – angry man point”* |
| Buoy 09 – Chinaman’s Point | “*Sensor data/buoy 09 – chinamans point”* |
| Buoy 10 – Waterfall Creek | “*Sensor data/buoy 10 – waterfall creek”* |
| Buoy 11 – Opposite Buckenbowra | “*Sensor data/buoy 11 – opposite buckenbowra”* |
| Buoy 12 – Big Island West | “*Sensor data/buoy 12 – big island west”* |
| Buoy 13 – Double Bay | “*Sensor data/buoy 13 – double bay”* |
| Budd Island Weather Station | “*Sensor data/weather station”* |

Otherwise please go to <https://www.farmdecisiontech.net.au/clyde-river-dashboard/> and login and download some files.

# 3.3 Chart Does Not Display Up To Date Data

# Features & Capabilities

# Features & Capabilities

# Features & Capabilities

The likely cause for this issue is that your data is in fact out of date.

If the chart is showing no data at all, please see the above corresponding issue for this *“3.2 Chart Does Not Display Data”*.

Begin by going to the install location of the application **[INSERT FILE LOCATION HERE]**

**[INSERT SCREENSHOT]**

You should see a folder called *data*. Open the folder.

**[INSERT SCREENSHOT]**

You should now see a folder called *sensor data.* Open the folder.

**[INSERT SCREENSHOT]**

You should now see a number of folders corresponding to all the available sensors including the weather station.

**[INSERT SCREENSHOT]**

Open the folder that corresponds to the sensor that you believe is out of date.

If you see a file within this folder then you need to update it.

Delete this file.

Go to <https://www.farmdecisiontech.net.au/clyde-river-dashboard/> and login.

**[INSERT SCREENSHOT]**

Then Go to *Data Export* at the top.

**[INSERT SCREENSHOT]**

Then Go to either *“ICT Salinity Sensor”* or *“ICT Salinity Sensor with solar”* for each of the sensors.

**[INSERT SCREENSHOT]**

Or Go to *“Weather Station 1 – v2.0”* or *“Weather Station 2 – v2.0”* and select Budd Island.

Enter the date range you want and select export (the giant black and white image of the arrow jumping out of the box to the right of the date boxes).

**[INSERT SCREENSHOT]**

Save this file into the corresponding location you navigated to before.

**[INSERT SCREENSHOT]**

TIP: If You click on the bar that tells you which folder you’re in and the directory navigation, you can copy the location and click and paste to quickly jump there when you download the file.

**[INSERT SCREENSHOT]**

# 3.4 Favourite Location Is Not Set

# Features & Capabilities

# Features & Capabilities

# Features & Capabilities

If the favourite location is not set then you simply need to reset the location.

The location can become unset for a number of reasons including:

* Uninstalling and Reinstalling the Application
* The preference file cannot be located or read
* The preferences file becoming corrupted, damaged or deleted
* The location was unset by the user

To reset the location, please see the above section for instructions on how to set your location: *“2.5 Setting Up/Changing Between A Favourite Sensor”*

# 3.5 Favourite Location Is Not Showing

# Features & Capabilities

# Features & Capabilities

# Features & Capabilities

If the favourite location is not showing, this could be for a number of reasons including but not limited to:

* Uninstalling and Reinstalling the Application
* The preference file cannot be located or read
* The preference file becoming corrupted, damaged or deleted
* The location was unset by the user

Irrespective of why the location is not showing, the solution to almost all reasons is the same, to reset the location.

To reset the location, please see the above section for instructions on how to set your location: *“2.5 Setting Up/Changing Between A Favourite Sensor”*

# 3.6 Insert Title

# Features & Capabilities

# Features & Capabilities

# Features & Capabilities