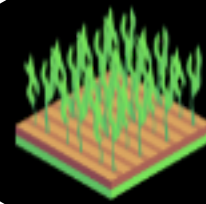
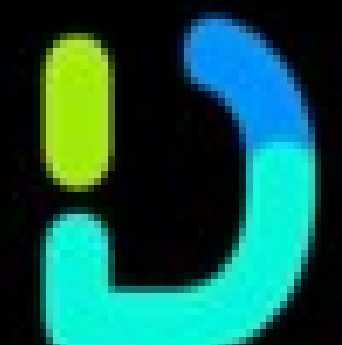
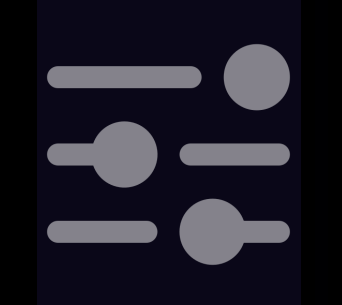
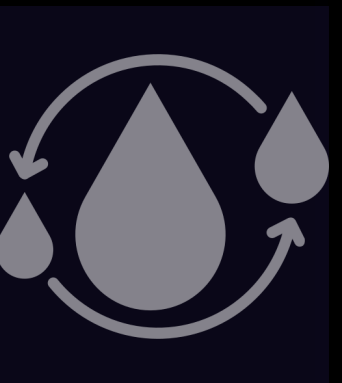


# CROP PRODUCTION REPORT

(From 12th September 2022 - 12th September 2023)



CLICK TO OPEN REPORT

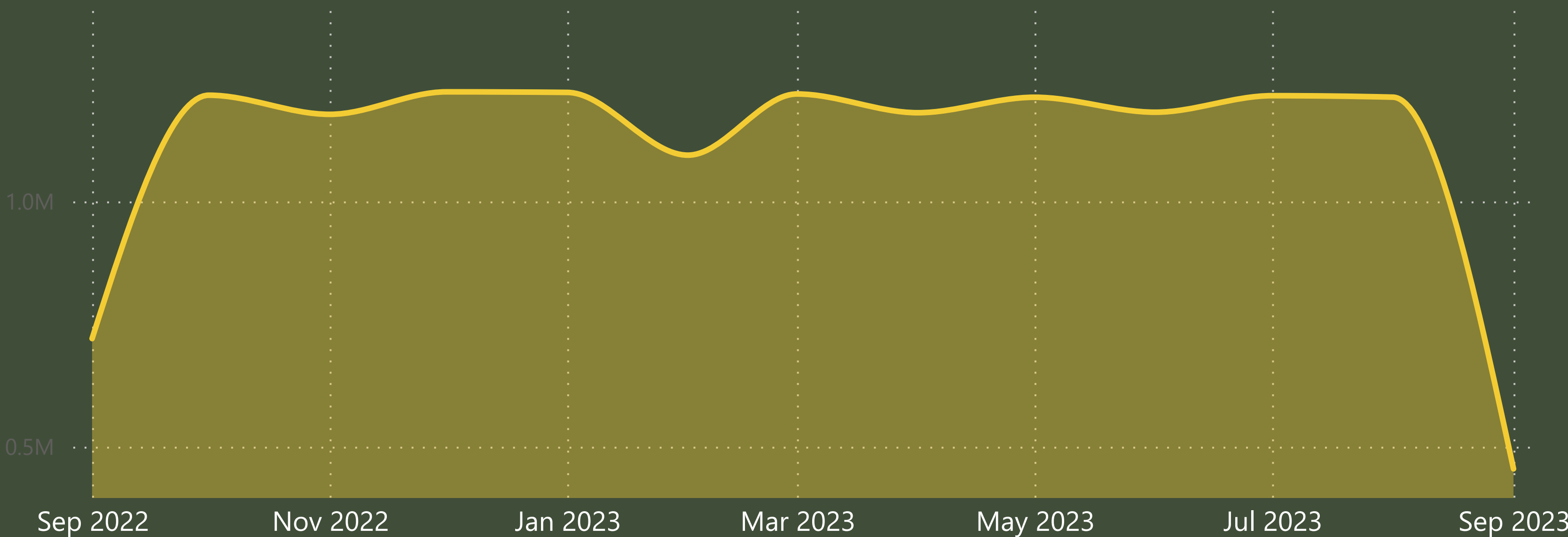


# COST PROFITABILITY REPORT

Report Info ⓘ

TOTAL CROP PRODUCTION RATE (KG/M2)

14.33M



Total Yield per Crop

Barley

1,429,958.34

Total Crop Yield (kg/m2)

Carrot

1,435,802.53

Total Crop Yield (kg/m2)

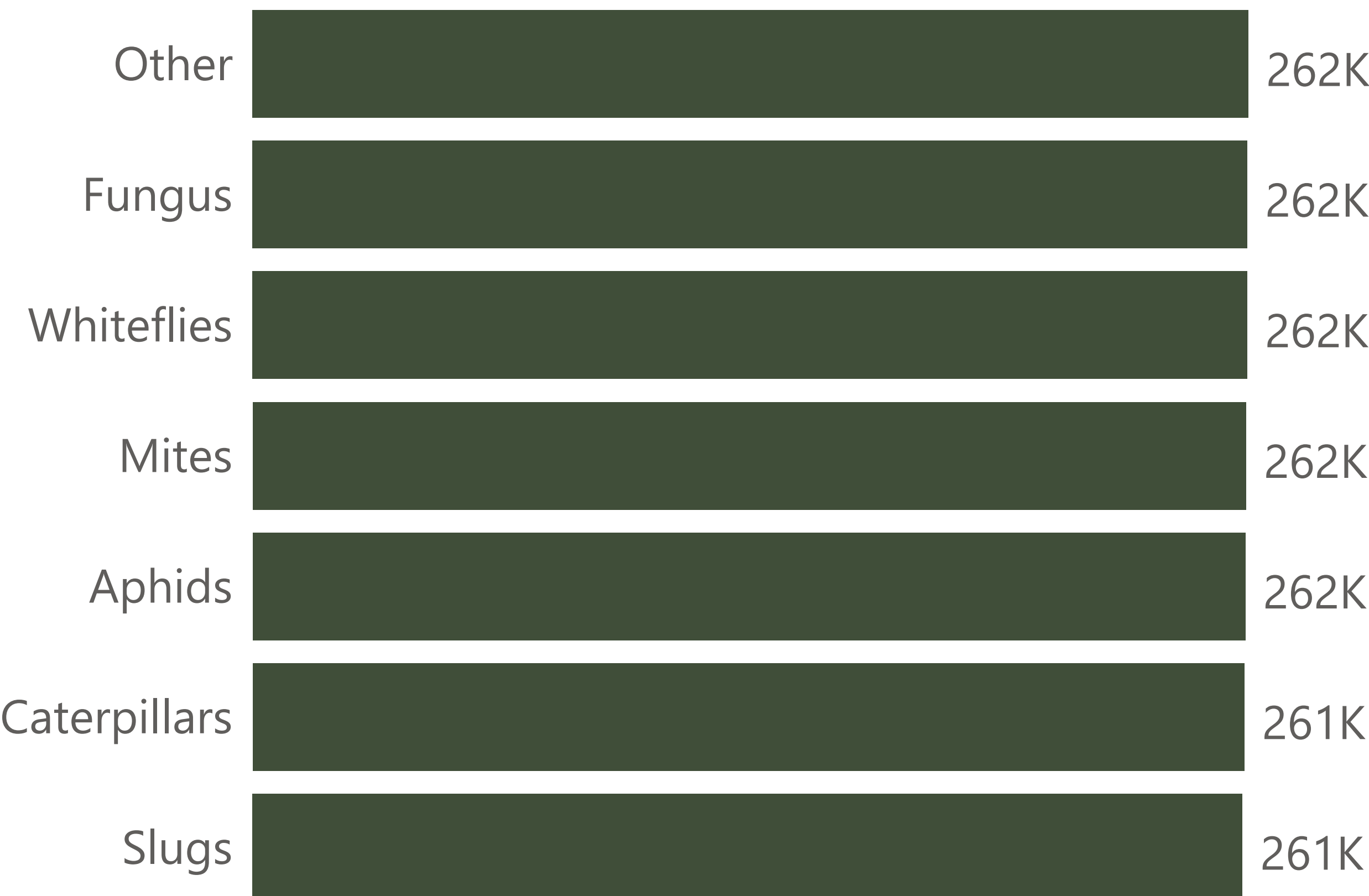
Corn

1,435,399.35

Total Crop Yield (kg/m2)

## Pest Occurrence & Infestation level

(drill down for more info)



## Soil Characterization

Nitrogen level

17.5%

Organic Matter level

5.5%

Moisture level

40.0%

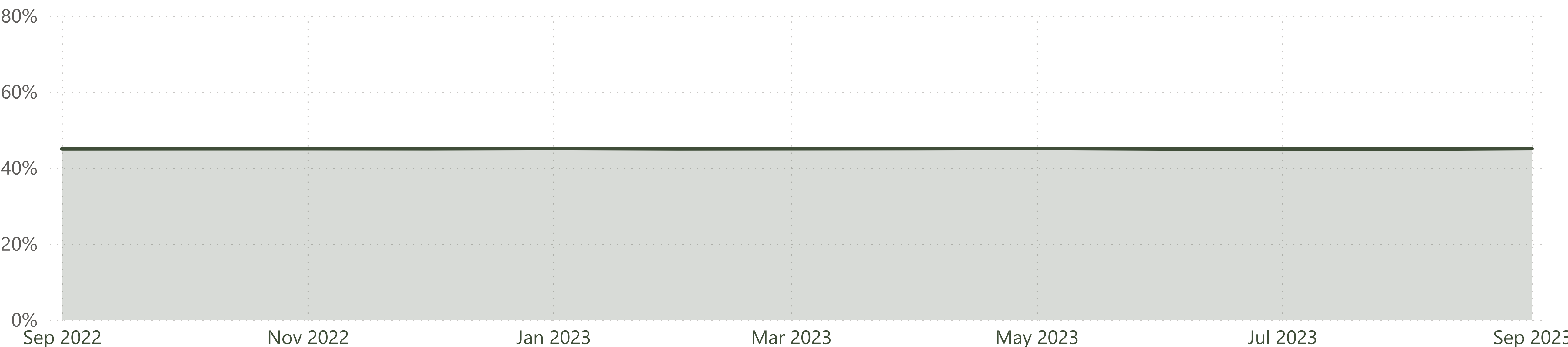
Ph Level

6.0

Phosphorous level

6.0%

Soil Composition (%) by date



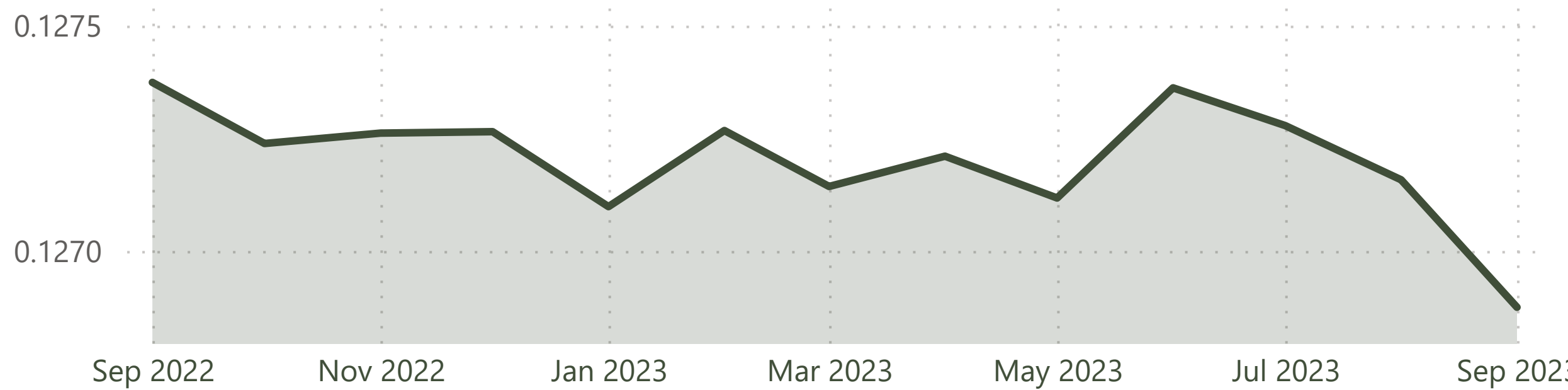
## Weather Observations

Pick a Weather Condition

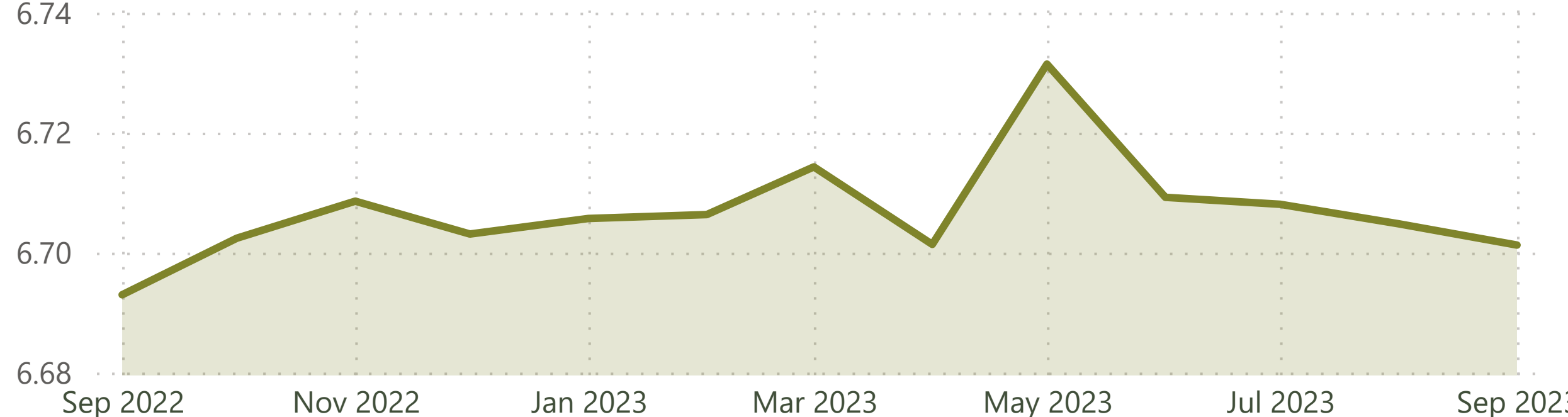
All



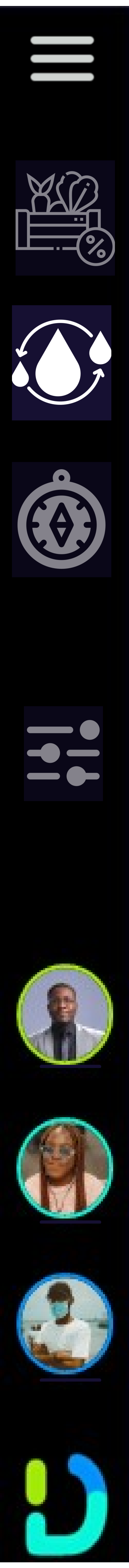
Precipitation (M) by date



Wind Speed (m/s) by date







# WATER RESOURCE ALLOCATION REPORT

## Optimizing Irrigation Method and Water Source for Optimal Yield

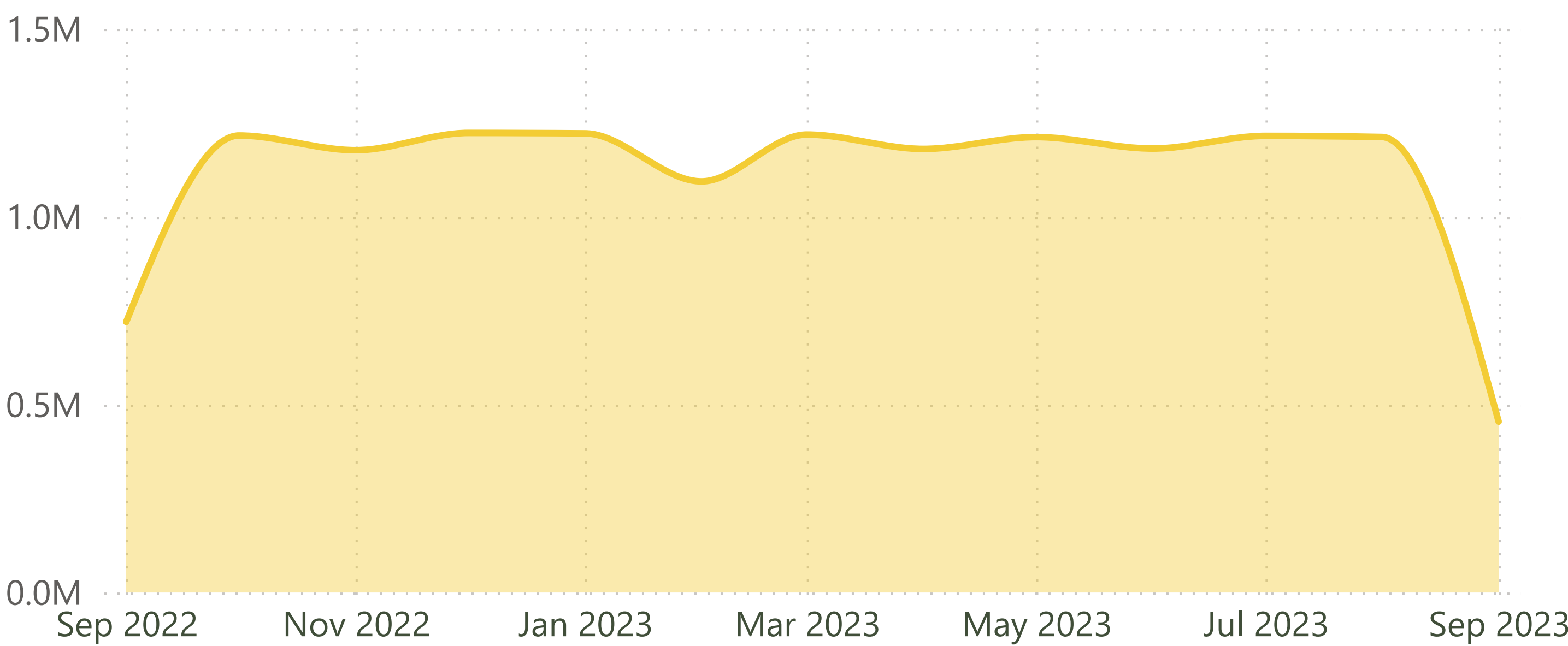
The aim of this analysis is to find the best combination of Irrigation method and Water Source that gives the best and optimal yield leading to profitability for AgResources Inc.

Date	Total Crop Yield	Mode Irrigation	Mode Water Source	Average Irrigation Time
29/12/2022	40,892.86	Flood	Lake	34.75 mins
14/01/2023	40,830.80	Drip	Other	35.31 mins
13/04/2023	40,792.86	Flood	Other	34.8 mins
30/04/2023	40,559.42	Sprinkler	Lake	35.56 mins
03/12/2022	40,544.05	Drip	Other	34.84 mins
04/01/2023	40,511.47	Drip	River	35.14 mins
07/04/2023	40,487.96	Sprinkler	Pond	34.98 mins
23/12/2022	40,486.21	Other	River	34.99 mins
31/10/2022	40,476.00	Sprinkler	River	35.14 mins
16/11/2022	40,470.16	Other	River	34.79 mins
29/11/2022	40,412.61	Other	Pond	35.08 mins
12/03/2023	40,403.31	Flood	Pond	35.08 mins
16/04/2023	40,398.92	Other	Well	35.12 mins
26/10/2022	40,398.17	Sprinkler	Well	35.29 mins
05/01/2023	40,375.93	Sprinkler	River	34.69 mins
26/03/2023	40,279.07	Sprinkler	Other	34.91 mins
10/07/2023	40,270.28	Drip	River	35.03 mins
28/02/2023	40,267.08	Sprinkler	River	34.62 mins
05/11/2022	40,265.80	Other	Pond	34.94 mins
15/01/2023	40,247.78	Sprinkler	Pond	34.97 mins
08/02/2023	40,240.84	Sprinkler	Pond	35.07 mins

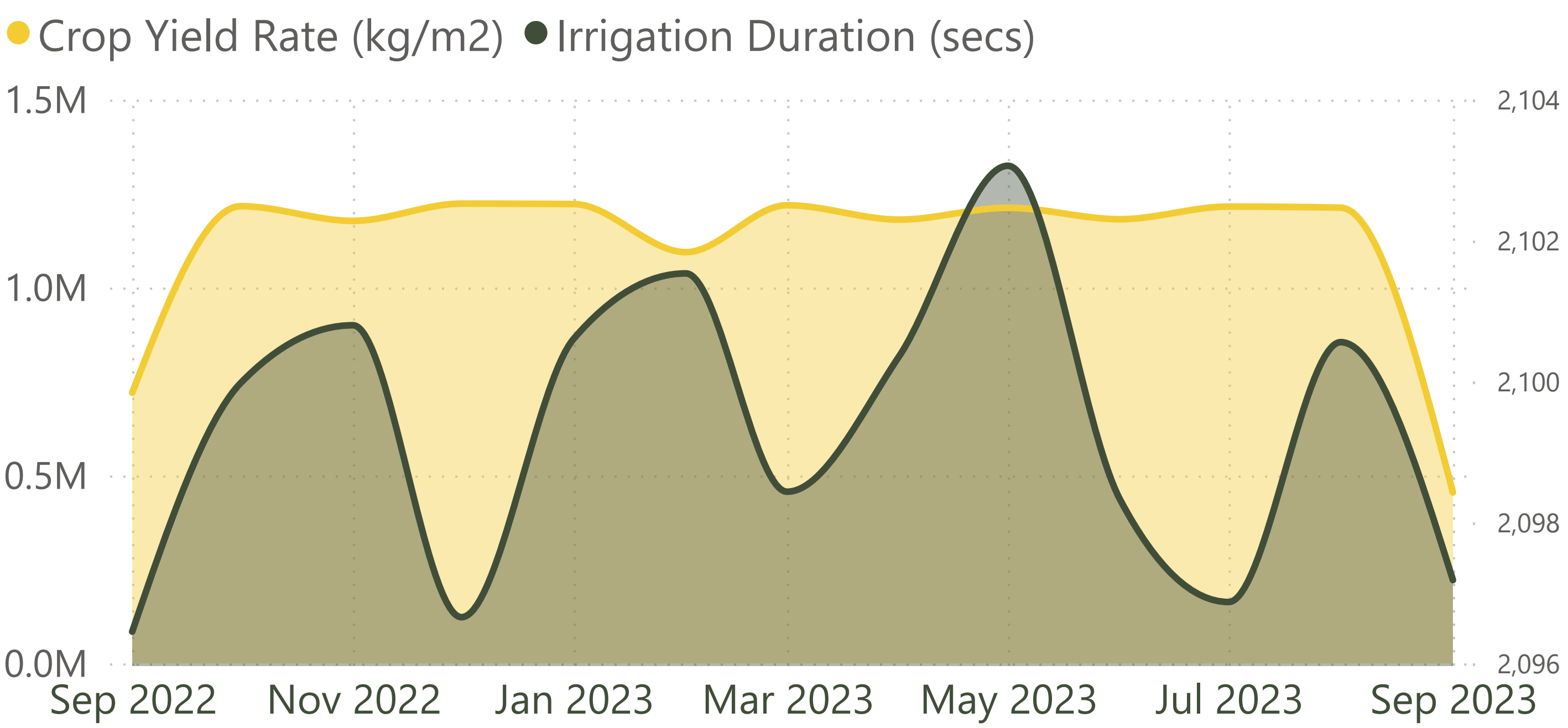
The Table above shows the Yield of the Crops on each day and it also shows the Most used Irrigation Method and Water Source on each. The Irrigation Method and Water Source used most on the day with the best yield is the best combination to give the best yield

## TREND OF CROP YIELD OVER TIME (KG/M2)

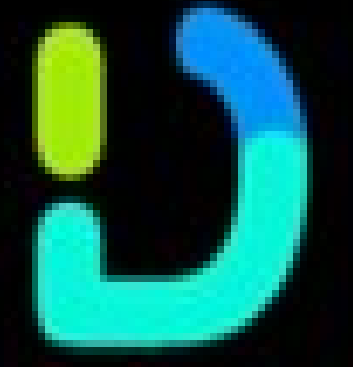
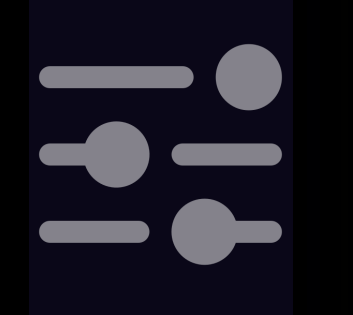
(Hover over the chart for more details)



## Trend observation between the time taken for Irrigation with the Crop Yield







# REGIONAL PROFITABILITY POTENTIAL

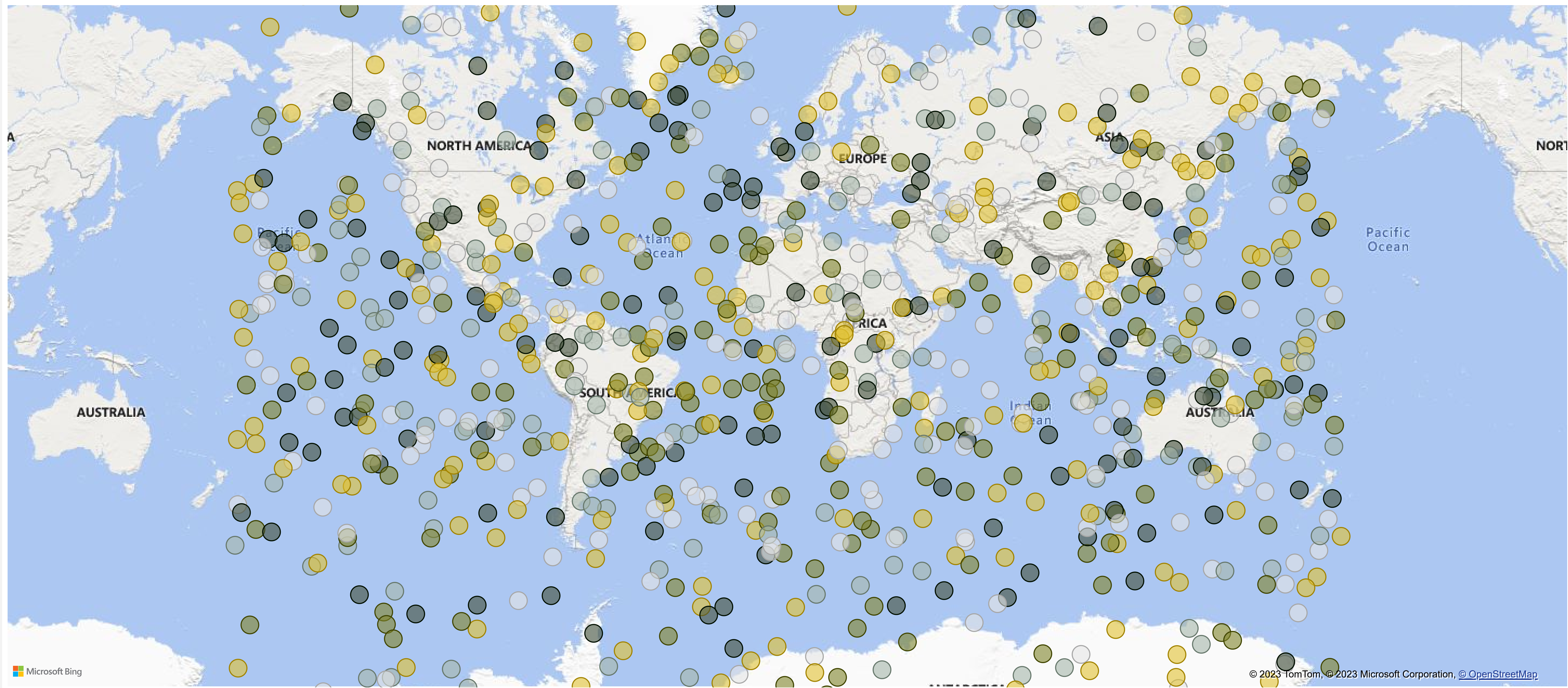
## Environmental performance of each Location

REGION ● Central ● East ● North ● South ● West

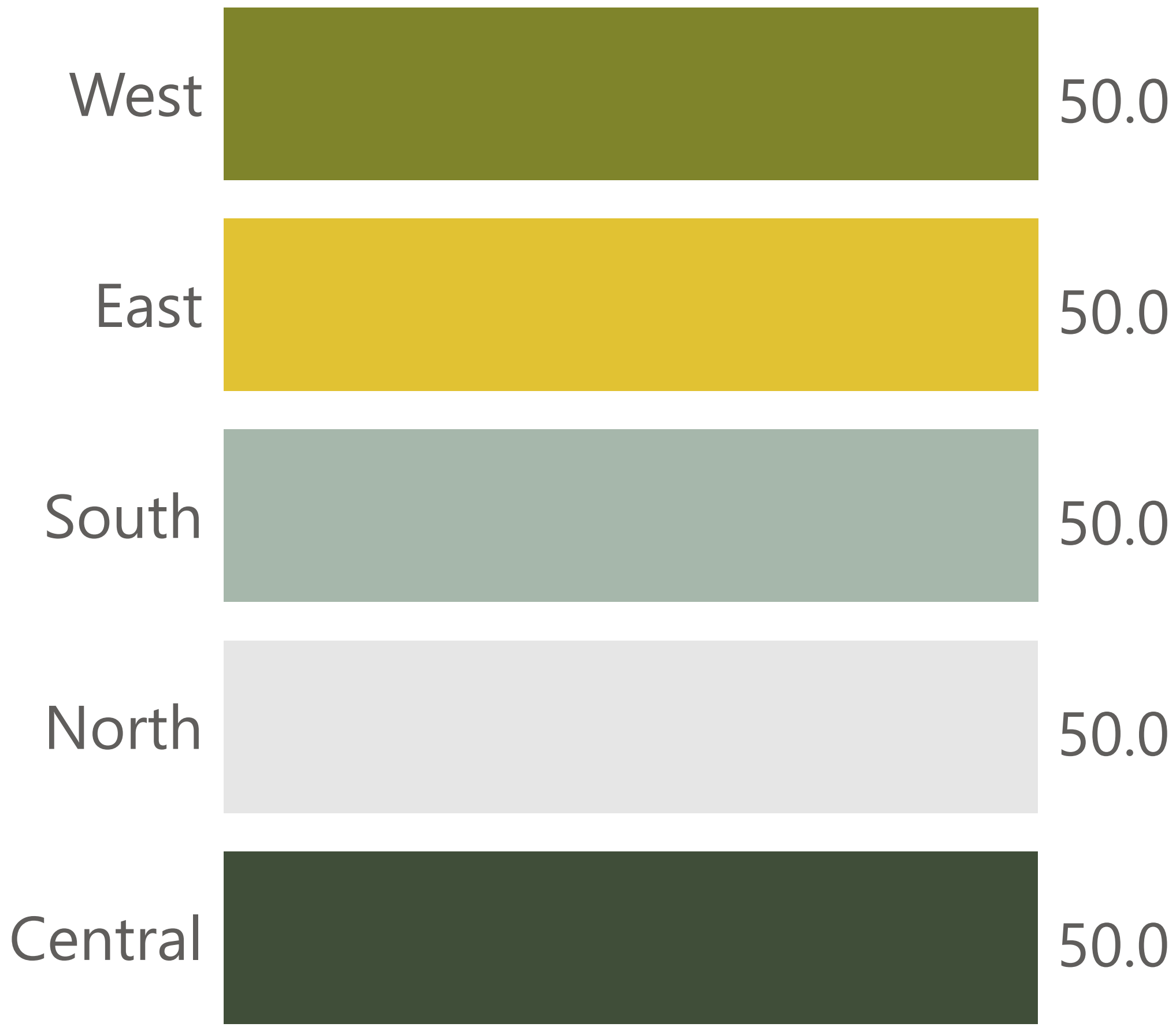
SELECT A METRIC

Average Humidity

▼



## AVERAGE HUMIDITY BY REGION



## Daily Environmental Observations

Date	Total Crop Yield	Battery level	Humidity	Light intensity	Temperature	Soil moisture
12/09/2022	15,026.64	84.60	50.0	5,979.26	-1.09	39.87
13/09/2022	39,178.48	84.99	49.9	6,023.51	-1.17	40.10
14/09/2022	38,626.54	85.08	50.1	5,973.99	-1.11	40.01
15/09/2022	39,148.93	85.08	49.9	6,030.11	-1.16	39.85
16/09/2022	39,707.04	85.03	50.0	5,998.04	-1.09	39.95
17/09/2022	38,632.15	84.96	49.9	5,999.05	-1.12	40.08