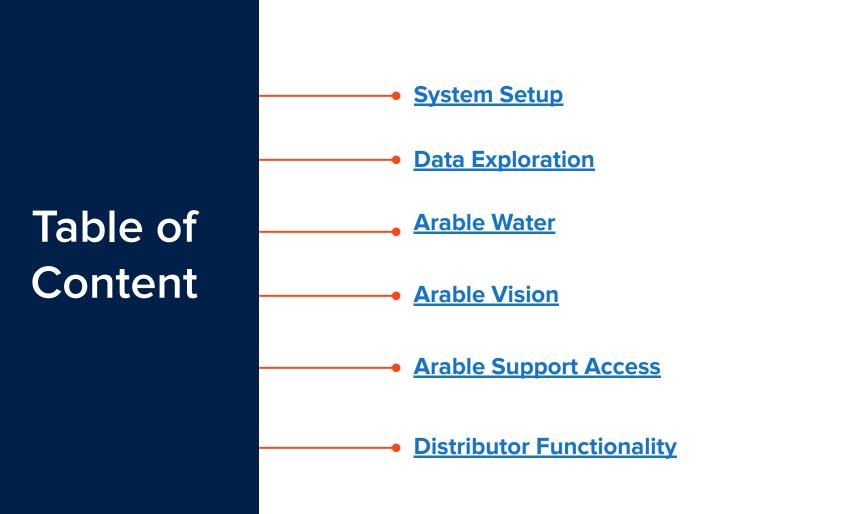
# WELCOME TO ARABLE

WEB ONBOARDING GUIDE NOVEMBER 2023







#### **NAVIGATION: The First 4 Essentials**



When devices ship, the **Org Admin** will receive an email with account details, including how to log in from the web, and how to download the mobile app. When you deploy your device and log into the web app (<u>https://app.arable.com</u>), you will land on the **Map** screen. The deployed device will populate the **Map** as "New" and will need a name for the location. If you are invited to the account by an **Org Admin**, you will land on the **Teams** page first. Let's get started with these four key pages:

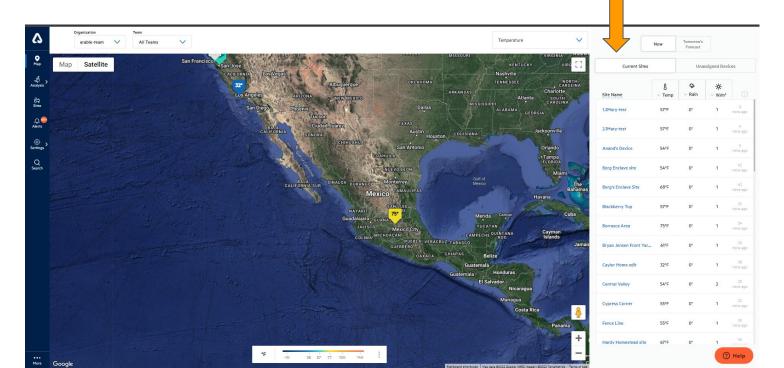




### SITES: A Field-Based Approach to Visualizing Your Data

# **MAP VIEW**

You'll notice that the Web landing page, **Map**, has changed to a Sites-specific view. Your currently-deployed devices will appear in the **Current Sites** tab with the Site Name as the original name of the device location.



### SITES: A Field-Based Approach to Visualizing Your Data

# **NEW DEPLOYMENTS**

Future deployments will appear under the **Unassigned Devices** tab on the **Map** screen. If you would like to tie the new deployment to an existing site, select that site's name under "Add to Site." If you would like to create a new site for this device, select "Create New Site."

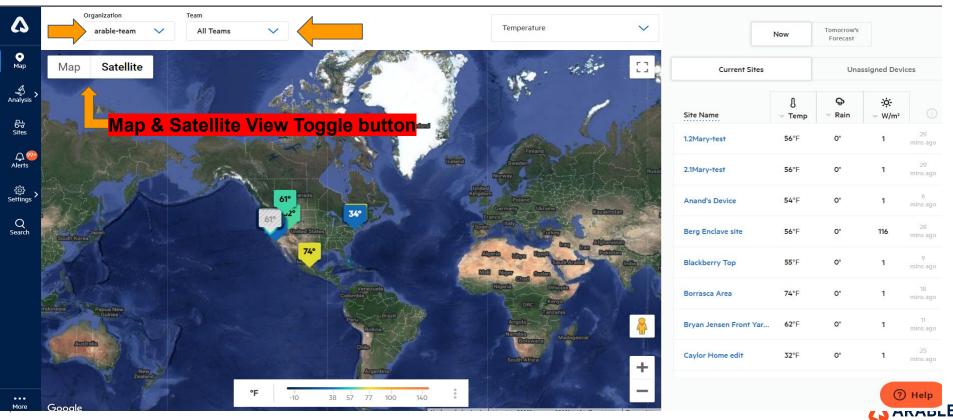
Demo	~	Ĵ
Current	t Sites	Unassigned Devices
Inassigned Devic	ces	





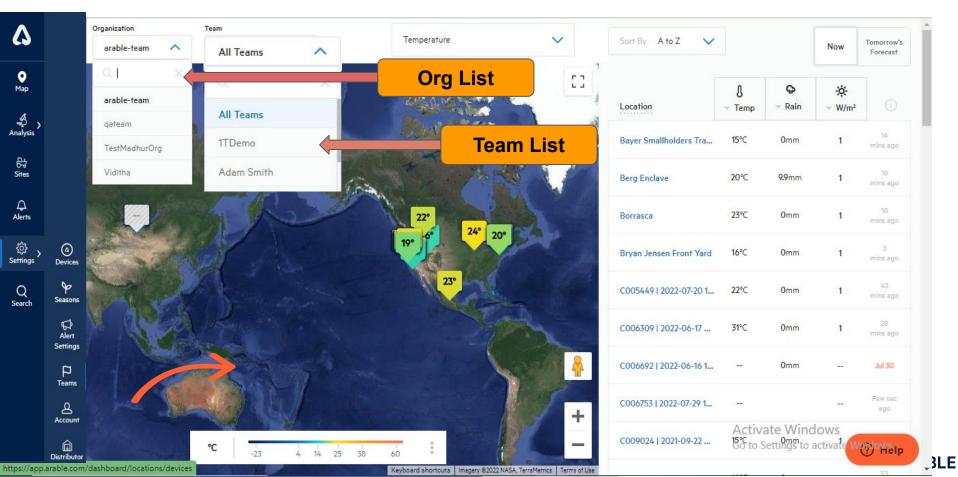
# Map View Toggle Button, Org Dropdown & Team Dropdown

You can switch the **view** of Map. And, also can switch to **another org or teams** you are part of. Also, the org and team selected from dropdown will act as **globally** on the app.





#### YOU ARE HERE: Arable Overview



#### **ACCOUNT: Settings & Notifications**

	Name * First & Last	PramithaM			Lobo		
	Email Address Email Address	pramitha.lobo@	@arable.com				
	Username * Usernames must be all lowercase and cannot be longer than 20 characters.	pramitha lobo					
	<b>Phone Number</b> e.g. +1 999 999 9999	<b>+1 •</b> 650-	488-5377				
	API Key Generate or refresh	cb88c13f-c06a	-42e0-9fe1-ffa4f5b25ba	a2	Refresh Key		
	Current Password						0
0	New Password						0
Devices	Confirm Password						Ø
∲ Seasons	<b>Units</b> Select your measurement units.	Size	Inches	or	Millimeters		
\$		Temperature	Fahrenheit	or	Celsius		
Alert Settings		Pressure	Millibars	or	Kilopascals		
		Volume	Gallons	or	Liters		
Account		Speed	Miles per hour	or	Kilometer per hour	or	Meter per second

First, head over to **Account**. On this page, you should change your password, plus find a copy of the **Terms of Service** (covering Warranty and Replacement) and the **Arable Data Privacy Statement**. You can also generate API Keys and ensure that you have access to the right account.

Here you will also add your mobile phone number to receive SMS- and phone- based alerts (in addition to push notifications), find the **Data Privacy Agreement, API Key**, and change **Unit Preferences**.



Agreements & Policies Latest versions

0 Map

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Analysis

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Sites

↓ Alerts

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Q Search

Distributor

Terms of Service Privacy Statement



# **ACCOUNT: Language Selection**

•	Organization	Team										
\$	Absolute Foods 🗸	All Teams	~									
<b>●</b> Map			Current Password		•••••					۲	Successfully Saved	
4 Analysis			New Password							۲		
다. Sites			Confirm Password	r.						۲		
Alerts												
کې Settings			Language Select your desired la	anguage.	English		Português		Español			
Q Search					<u></u>					-Introdu	uced 'Save' and 'Cancel'	
										button (	On selecting the language.	
			Units Select your measurer	ment units.	Size	Inches	or	Millimeters				
					Temperature	Fahrenheit	or	Celsius			licking save button	
					Temperature	, amenned	U	Cetatua			ssfully saved' popup	
					Pressure	Millibars	or	Kilopascals	]	messag	ge will appear.	
					Volume	Gallons	or	Liters	]			
						2					-	
••• More				Cancel		Save						-

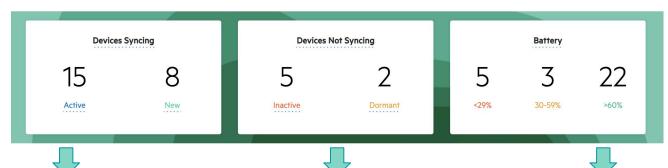


#### **DEVICES: SETTINGS**

Δ 0 Map \$ Analysis 品 Sites Д Alerts <u>نې</u> Settings Devices 8 Q Seasons Search 5 Alert Settings Ρ Teams B Account â

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The **Devices** page helps you manage the status of each of your devices & monitor connected sensors.





Named devices that are posting measurements to our servers at least once every 8.5 hours.

#### **Devices Syncing: New**

Devices from the factory will show up as Untitled upon first deployment. Once given a sitename the status is updated to Active.

#### Inactive

Deployed devices experiencing a field problem. Main causes are battery <15% or the device has not posted measurements to our servers for 8.5 hours.

#### Dormant

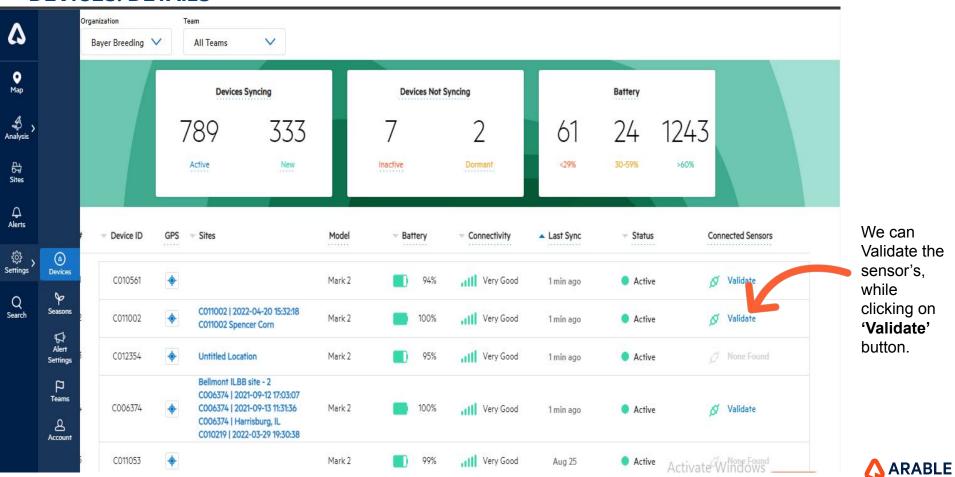
Devices that have sent an undeployment message to the Arable system and are no longer collecting data.

#### Battery

Grouped by low, medium, and high percentage. Under 30% is in danger of losing power, and may need to be plugged into a power source to charge, then moved to a permanent location with more direct sunshine. Medium should be monitored for future dips in charge. High is fine, no action required.



#### **DEVICES: DETAILS**



#### SET UP CONNECTED SENSORS

^		Organi	ration	Tei	am			8		
\$		Ba	ver Breeding 💊		All Teams	Sat Up Copp	nected Sensors			
• Map					Devices Syr		ensors are plugged into the Mark.		Battery	
Analysis >				7	789	Port 1 Analog		1	24	1243
다. Sites					Active	Davis Wind Anemometer 6410 (D	Direction) 🗸 1 🔒	156		
						Davis Wind Anemometer 6410 (E	Direction)			
ے Alerts		#	- Device ID		- Sites	GEMS PS41 Series Pressure Swite		VDC	- Status	Connected Sensors
\$\$ \$							ern Hemisphere, it is recommended that the and that a value of 180° is entered as offset.			
Settings	Devices	-ki		٠		Port 2 Pulse		ago	Active	
Q Search	∳ Seasons	2			C011002   2022-0 C011002 Spencer	Davis Wind Anemometer 6410 (S	ipeed) 🗸	ago	Active	
	Alert	5	C012354		Untitled Location	Port 3 SDI-12		100	Active	
	Settings				Bellmont ILBB sit	Sentek Drill and Drop Soil Moistu	ire Probe 🗸	190	- Active	
	P Teams	4	C006374		C006374   2021-C C006374   2021-C			800	Active	
					C006374   Harris C010219   2022-0			-90	- Pacific	
				+		Cancel	Confirm	25		Activate Windows
•••		6	C006464 hboard/settings/d	-		11/dx 6, 2	The MILL VELY GOOD THIM	ago	Active	Go to Settings to activate Help



# SET UP CONNECTED SENSORS - NEW DEPLOYMENTS

We can Validate the sensor's, while clicking on '**Validate**' button and Before selecting port 2, the user should select 'Port 1 Analog' sensors or an error message will appear.

		Organi	zation	Tea	im						
۵			yer Breeding 💙		All Teams 🔍						
● Map					Devices Sync	Se	t Up Connected S	ensors	×	Battery	
Analysis >				7	789	Please confirm the	e following sensors are	plugged into the Mark.	1	24 12	243
다. Sites					Active	Port 1 Analog			,		-60%
		#	- Device ID		Sites		Direction or Pressure Sw	vitch to continue 🗸 🗸	):	- Status	Connected Sensors
\$\$ \$	0		Diffici ID			Port 2 Pulse					
Settings	Devices					Davis Wind Anemon	neter 6410 (Speed)	$\checkmark$	10	Active	Ø Validate
Q	Seasons				C011002   2022-04	Port 3 SDI-12					
Search				*	C011002 Spencer C	Sentek Drill and Dro	p Soil Moisture Probe	1	]: "	Active	Ø Validate
	Alert Settings		C012354	٠	Untitled Location				10	Active	$\beta^{f}$ . Norm Found
	Teams Account	4	C006374		Belimont ILBB site C006374   2021-09 C006374   2021-09 C006374   Harrisbi C010219   2022-03-	Cancel		Confirm	to	Active	Ø Validate
						P1d( 6, 2		HIII vely 6000	Aug 25	Active Active	tivate Windows
•••						Mark 2				Go Active	to Settings to activate W relp



#### **TEAMS: OVERVIEW**

• Map \$ Analysis 8 Sites <u>نې</u> ( Setting Devices 90 Q Seasons Search 5 Alert Settings Teams B Account Â

Distributor

Next, to get everything set up, navigate to the **Teams** page. This will allow you to set up your team, add additional users, change account permissions, and ensure that you have the right level of access to account information.

Organization arable-team	All Teams	~					
	2 Assigned	Teams O Unassigned	16 Assigned	Members O Unassigned	6 Assigned	Sites O Unassigned	
-	Team Name	• Members		- Sites			
	Administrators	(86) Total				© View Te	zam
	1Test	(12) Total		(3) Total		⊚ View Te	zam
	arable	(8) Total		(3) Total		⊚ View Te	
						Activat	e Windows

We've designed the Arable platform to be flexible enough to serve users with different needs, from granular operations to large-scale data collection across multiple geographies. On the **Teams** page, the Org Admin will be able to see all the teams, devices and members associated with the account. Teams tie together users with devices. Within each team, members will have access to the subset of devices associated with that team. Please check this page and make sure you have access to the right teams and right subset of devices/locations.



#### **TEAMS: Members & Permissions**



Select "View Team" to see any of the members associated with each team. You will be able to see members, their email address, and their level of access. At Arable, we take data privacy very seriously. To make it easy for you to manage permissions, we have four levels of access: Org Admin, Org Reader, Team Admin and Members.

	🔻 Team Name	<ul> <li>Members</li> </ul>		<b>Org Admin</b> will be able to see all the devices associated with the account, can add members to
۲	Administrators	(5) Org. Admin (2) Org. Reader		any team and create new teams. Org Reader can see all the devices, but cannot
Devices				move members, teams and devices.
∳ Seasons	Team Members Info	prmation		Team Admins can invite new members to their
\$	Name	Email	Role	teams.
Alert Settings	Adam Wolf	adam@arable.com Org. R	<sub>eader</sub> Org. Admin	Members can view & edit device, team and member data for only their team, and cannot invite
P Teams	Loreli Carranza	loreli@arable.com	Org. Admin	new team members.
	Vanessa Handley	vhandley@berkeley.edu	Org. Reader	
Distributor				

# **TEAMS:** Inviting Members & Creating New Teams

**Invite Member to Organization** 



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Select Member		
Select Member		
Select Member		$\sim$
Select Role		
Select Role		$\sim$
Select Team(s)		
Select Team(s)	$\sim$	Add
Teams & Roles		



Confirm

Cancel

Unlimited users can join the Arable platform. Click on "Invite Member" to add new members (New) and to move existing members to new teams (Current).

By clicking "Create New Team" you can organize a new set of users and subset of devices/sites. If you need help adding members or teams, please get in touch with <a href="mailto:support@arable.com">support@arable.com</a>.



Team Name	
Type the team's name	
Add or Remove Members	
Type Name or Email Address and pres	ss Enter
Add or Remove Devices or Loca	tions
Type Device ID or Location Name and	press Enter
Cancel	Confirm

#### **SEASONS:** App admin

Key	Description		Orgs	Users	Enabled Everywhere
sites	use the sites feature		441	8	~
vision	use the vision feature		32	72	×
season-days	season-days		1	None	×
water	use the water feature		37	61	×
Feature Flags					Home / Feature Flags
Feature Flag Settings					
Key					
season-days					
Description (optional)					
season-days					
Enable Everywhere (optional)					
Update					
Users					
@ Email	Q			🖀 Email	Add User
Email		Actions			
Orgs				S Org Name	Add Org
Org			Actions		
arable-team					

- The *Season-days feature flag*' can be Added and Removed under *Season-days* menu

- The Season-days feature can be Added and Removed for each user and user roles by adding their respective mail Id under '*User*'

- The Season-days feature can be Added and Removed for the Organization by adding their respective Org name under '*Orgs*'



#### **SEASONS:** Overview

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Then, navigate to **Seasons** to add details about the crop at your site. We have variety-specific growth stages that will allow for growth-stage based alerting. There are two different ways to create season and track the growth stages by 'GDD' mode and 'Days from Start Date' mode which can be selected in Growth Stage Tracking drop down. User will have access to 'Days from Start Date' mode when the Org or the user is added in the feature flag of 'Season-days' in App -admin.

Even if a device is not deployed at a site at the start of the season, setting up a season retroactively will enable us to backfill with remotely sensed data to provide a better snapshot of the season as a whole.

We built Arable to understand interactions between the climate and crop productivity. To maximize the benefits of the system, we encourage users to add in their seasons and track growth stages.

By inputting seasonal start dates, harvest dates and growth stages, we can combine measurements to allow users to monitor water availability during critical stages, or if different fields are maturing faster.

**Days Mode** : A new Growing season by Days addition allows users to create Seasons by Days. While in the Days mode, the calculated cumulative GDD values will be provided based on the number days entered for the selected 'Growth Stages'.

**GDD Mode** : A new Growing season by GDD allows users to create Seasons by GDD. While in the GDD mode, user can add temperature threshold and growth stages.

Create New Season	
Please select a Site and assign it a crop type and varietal.	
Select to use GDD Units or Days from Start Date for growth stages.	
Once your new season has been created you will need to add growing dates and growt	h
stages	

Select Site	~
Сгор Туре	
Select Crop	~
Varietal	
Select Varietal	$\sim$
Growth Stage Tracking	
GDD Units	^
Days from Start Date	
GDD Units	



### **SEASONS: Entering Growth Stages in GDD mode**

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Settings Devices Devices Seasons Alert Settings L Teams Account

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If the standard growth stages for a varietal does not match your specific needs or experience, you can easily add or remove growth stages yourself.

Once you enter your varietal and growth stages, it's also easy to apply the same growth stages to multiple devices/Sites. Make sure the season start date is correct, even if it is in the past. Note that the absolute value of cumulative growing degree days will vary based on preferred unit (°C or °F).

Crop Choose your crop type	Almond	$\sim$	Varietal Choose your variet	al type	Aldrich	~
Threshold: Low 5 °C - F	ligh 35 °C					
Growing Season						
	av 52				Start Date	End Date
Refill Threshold: 70% 🗹					09-Nov-2023	24-Nov-2023
	- Growth Stages					:
	stage1					:
100						
100 200	stage2					:



# SEASONS: Entering Growth Stages in Days from Start Date mode

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If the standard growth stages for a varietal does not match your specific needs or experience, you can easily add or remove growth stages yourself.

Once you enter the number of days manually or can click on the calendar button and select the date, the GDD cumulative value will be displayed based on the number of days. The GDD values are not editable in days mode but user can edit the growth stages, it's also easy to apply the same growth stages to multiple devices/Sites. Make sure the season start date is correct, even if it is in the past. Note that the absolute value of cumulative growing degree days will vary based on preferred unit (°C or °F).

Choose your cr	op type	Alfalfa	$\sim$	Varietal Choose your varietal	l type	Spring	$\sim$
Threshold: Lo	w 4 °C - High I	N/A					
Growing Seas	son						
					Start Date	End Date	
Refill Threshold: 70% 🗹					28-Nov-2023	11-May-2024	
- Days from	n Start Date	- Growth Stages				👻 GDD Units (°	0
/						45	:
1		Stage 1					
		Stage 1 Stage 2				229	:
1	<b>—</b>	-					:



#### **SEASONS: Understanding the Dashboard**



The number of locations assigned to at least one season in the organization.

#### **Sites: Unassigned**

The number of sites that are unassigned in the selected organization. To best archive your historical crop data, this number should be zero. The number of seasons where today's date is currently within a growing season's start and stop dates.

#### **Seasons: Completed**

The number of seasons with stop dates in the past.

#### **Seasons: Upcoming**

The number of seasons with start dates in the future.

The number of sites with seasons (planting and harvest date defined) that have incremental growth stages enabled, and therefore are able to receive growth stage-based alerts.

#### **Growth Stages: Undefined**

Those without defined growth stages.



Settings

Devices

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Seasons

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Alert

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#### **ALERTS: Overview**

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Distributor

Now, select **Alerts**. Since you've already added your phone number, crop and season information, it will be easy to select different thresholds for unique locations to make sure you don't miss an event in your field.

Heat Spikes	58 ÷ °C	Frost Events	23 🔶 °C	Rainfall Events	3 🔒 in/hr
D I	I		ð	D	I
Crop Health Alerts		Device Alerts			
GDD & Growth Stages		Inactive and New Sites		Device Tilts	7 🗘 •

Only **Org Admins** can change/set the global alert thresholds. There are options to receive alerts on the following parameters:

- Heat Spikes
- Frost Events
- Precipitation Rate
- Growth Stage / GDD (new growth stage transition)
- **Device Alerts** (tilt/inactives)

All users can opt in to receive alerts three different ways, and will receive alerts for ALL devices assigned under their permissions:

- **SMS-Based Text Alerts**, enter phone number on Account page.
- Phone Calls, enter phone number on Account page.
- **Push Notifications**, via the mobile app.



#### ALERTS: Site-Specific (1 of 2)

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Analysis

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The alerts system defaults to global alert, setting the same thresholds across devices/locations.

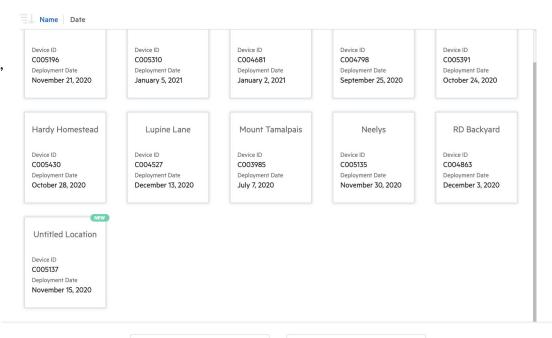
By clicking "Add Alerts for Specific Site," Org Admins will be able to set own thresholds for specific devices/locations. Similarly, any user can customize the method for receiving alerts with the same mechanism.

#### Notifications Settings Created for a Specific Location

Your new specific notification settings have been created for Untitled Location. You can now set specific parameters and notification channels for this location.

Close

#### Add Notifications Settings for a Specific Location Please choose the location you would like to add specific notification settings



Cancel

Confirm



#### ALERTS: Site-Specific (2 of 2)

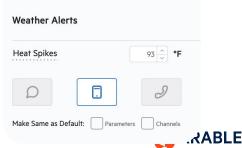


For each location, the alert settings will mirror the global settings as the default setting. Once a specific location is selected, it will appear below the global settings (as shown for **Weather Alerts** on the right). Initially, both the **Parameters** and **Channels** boxes will be checked, indicating that that location will mirror the global settings by default.

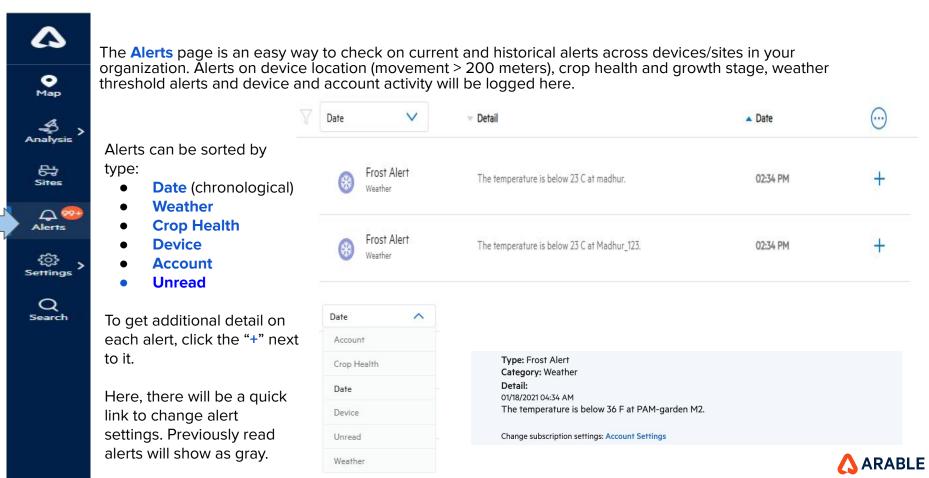
To set location-specific alerts, uncheck the **Parameters** and **Channels** boxes. This will allow the user to change the thresholds and select different methods for receiving the alerts.

By rechecking the **Parameters** and **Channels** boxes, the user overrides the local settings and reverts to the default global settings.

Weather Aleri	s	
Heat Spikes		96 <u>^</u> °F
D		I
Crop Health A	lerts	
GDD & Growth S	Stages	
D		I
Untitled Loca	tion	



#### **ALERTS: Overview**





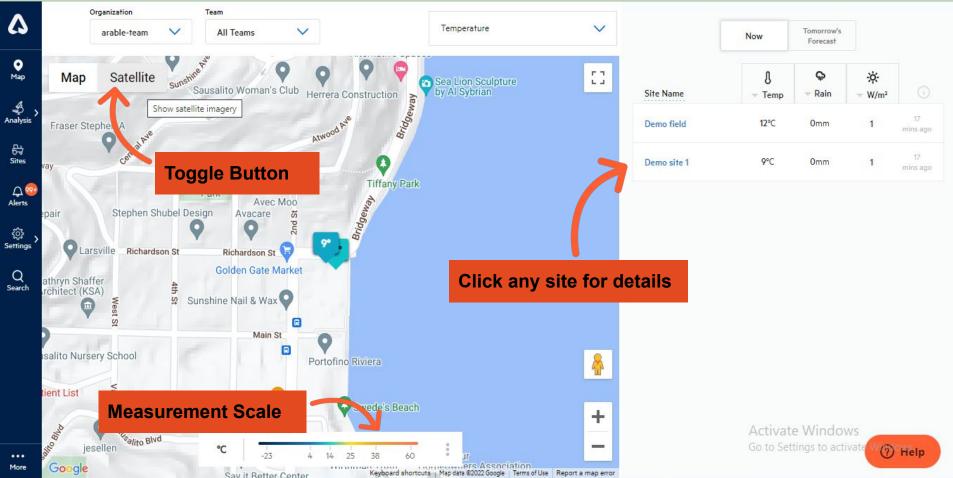
### **EXPLORE THE WEB APP: Getting the Most Out of Arable**



Once you have the basics set up, you can begin to explore more functionality in the app.

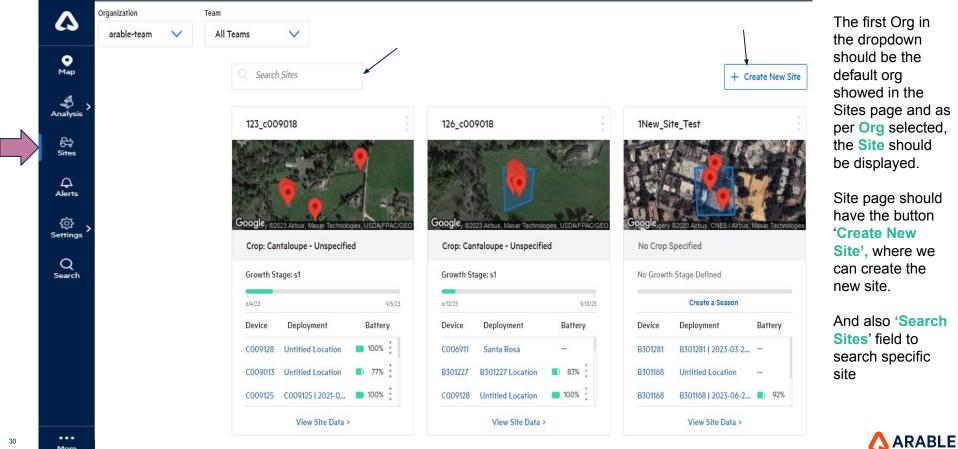


#### **MAP: Overview**





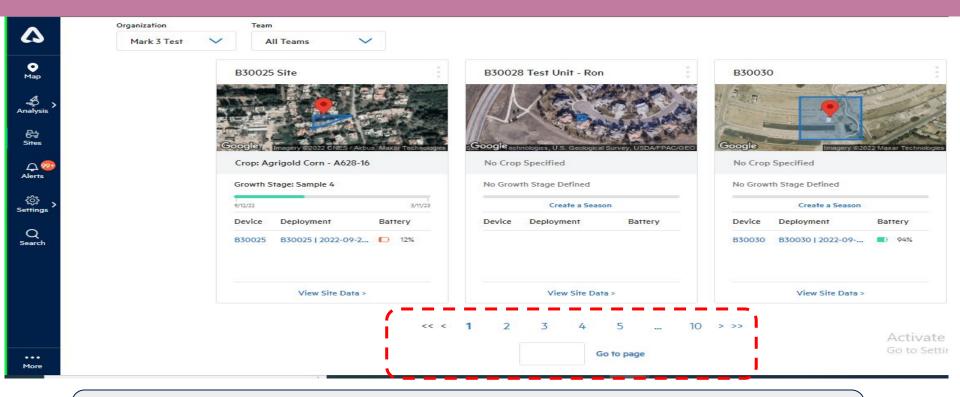
#### Sites : Overview



More



# Sites : Pagination & "Go To Page" Field



**Introduction** :- We are introducing the Pagination & Go To Page feature on the site page, where we can jump to any page where site details are present.

## Sites : Search Sites Field

Organization	Team			
arable-team 🗸 🗸	All Teams 🗸			
	Q Jan X		+ Create New Site	Introduction :- We are introducing the "Search
	Jans Backyard	Jan's Backyard - B3	Jan's Backyard B301188	Sites" feature on the site
				page, which will enable user to search the specific sites.
	FGOOGLE echnologies, U.S. Geological Survey, USDAFFAC/GEO No Crop Specified	No Crop Specified	GOOGle echnologies, U.S. Geological Survey, USDA/FPAC/GEO No Crop Specified	Minimum <i>three</i> letters are required to initiate search
	No Growth Stage Defined	No Growth Stage Defined	No Growth Stage Defined	required to initiate sedicit
	Create a Season	Create a Season	Create a Season	User has to press "Enter"
	Device Deployment Battery	Device Deployment Battery	Device Deployment Battery	button on keyboard,after
	C003068         Jans Backyard            C013860         C013860   2023-02 <ul> <li>100%</li> </ul>	B301223 B301223   2023-01-1 B30057 Jan's Backyard - B3	B301188 B301188 location B301188 B301188   2023-02	entering search keyword.
	C007712 Jan's Backyard - Co View Site Data >	B301270 B301270   2023-01-2 View Site Data >	View Site Data >	Clicking on "X" button in search box, will reset the
	Include an and approximately a			search and will redirect to

1st page.



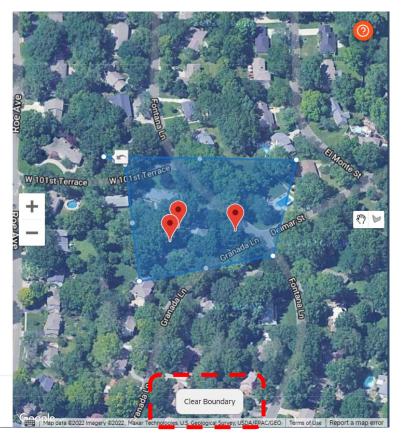




# Sites : "Clear Boundary" button

Confirm

	10 Square meters		
Device ID	Deployment Name	Status	
C005306	Untitled Location	Assigned	
C005306	Untitled Location	Assigned	
C005306	New Location	Assigned	

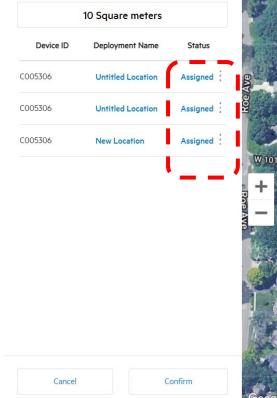


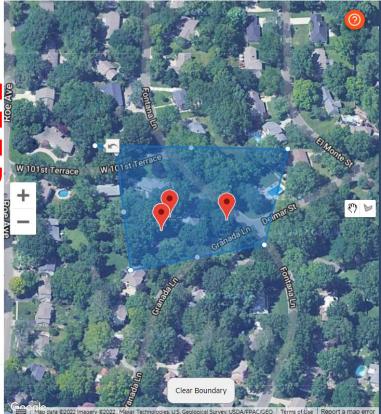
Introduction :- On the site view page, we are introducing the 'Clear Boundary' option. If a user wishes to clear a boundary that has already been drawn, the 'Clear Boundary' option can be used to do so immediately.

Cancel



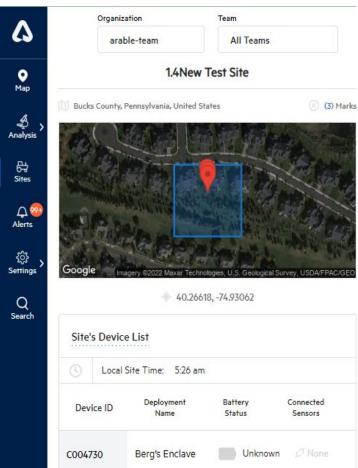
#### Sites : Default Status for Devices as "Assigned"





**Description:**- Here we are introducing default status for devices as 'Assigned' which means if user want to create a site so the default site created on unassigned devices on map page has area of 10\*10 m and for default sites, the device shall be set to 'Assigned' rather than Include on creating boundary and If the boundary is removed, the assigned devices should still be visible in the list and if user has marked all device as "Assigned" & then deleted the boundary, then clicking on "Confirm" button, should not allow user to save.

#### **SITE DETAILS: Overview**



On the map, click a Site's name from the list on the right to be taken to that Site's complete details page. A **Site** is a named Mark device; if you need to name your new device, this is where you do it.

All of the device's information can be found on the right side of this page, including the Sitename, device ID, GPS Site, battery percentage, time of last sync, and any connected external sensors such as soil probes or anemometers.

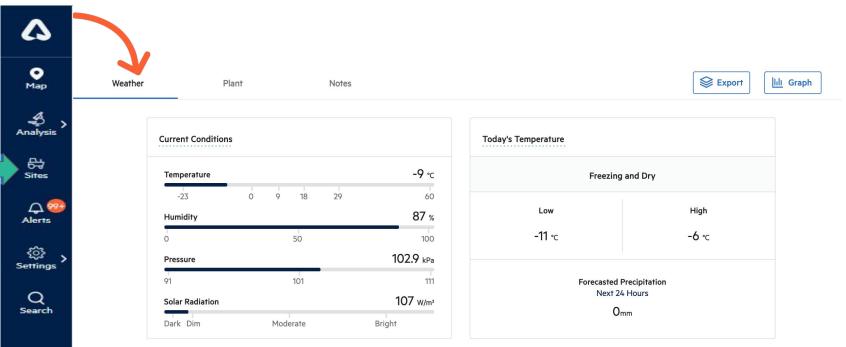
Here you can add tags (e.g., alfalfa, strawberries, greenhouse) to the Site; these tags can searched and referenced via the **Search** page.

Top right are quick links to the **Export** and **Graph** pages.

In the following slides we'll explore the **Weather**, **Water**, & **Plant** tabs. Click on any of the words underlined in blue (e.g., **Current Conditions**) to see detailed descriptions of the measurements and other helpful information.



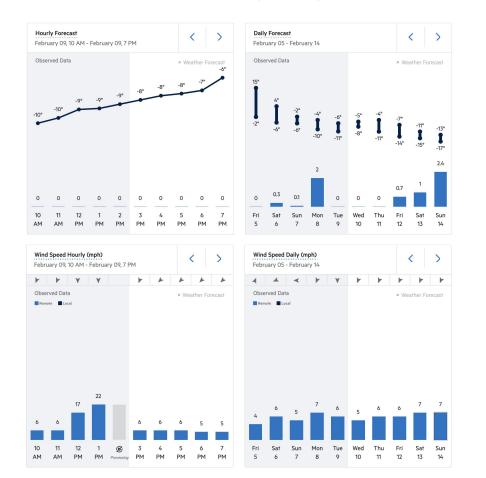
### SITE DETAILS: Weather Tab (1 of 2)



Detailed weather measurements can be found on this tab. **Current Conditions** shows climate conditions for the selected location, like humidity and solar radiation. **Today's Temperature** shows a low and high temperature for the day, as well as expected rainfall.



#### SITE DETAILS: Weather Tab (2 of 2)



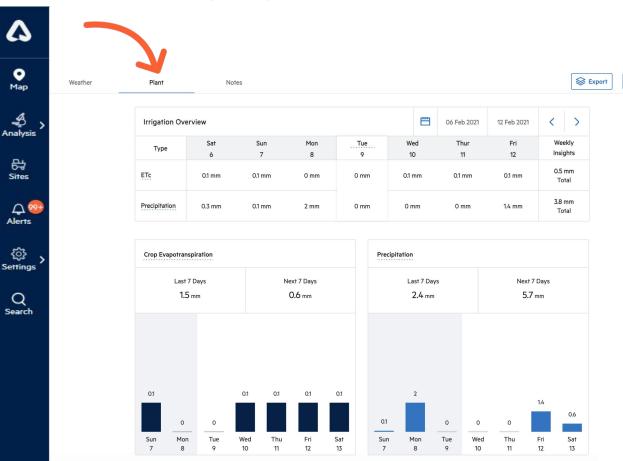
The graphs at the bottom show **Hourly** & Daily Rainfall and Hourly & Daily Wind Speed. Without an attached anemometer, we will show remotely sensed wind.

Both observed (grayed, to the left) and forecasted (white, to the right) data are shown for the day selected. You can scroll to the left or right to see past and forecasted values. For hourly, we show 48 hours' observed data and 48 hours' forecast. For daily, we show 14 days' observed and 10 days' forecast data.

Use the blue <> arrows at the top of each graph to change the time/date.



#### SITE DETAILS: Plant Tab (1 of 2)



The **Plant** tab shows a Sites plant measurements, a critical component to understanding crop outcomes.

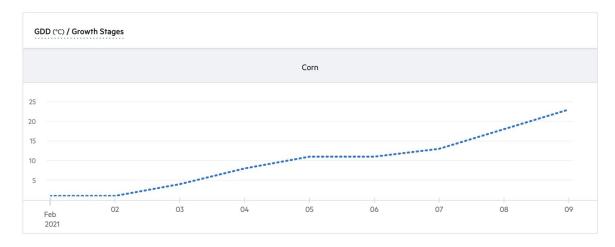
lill Graph

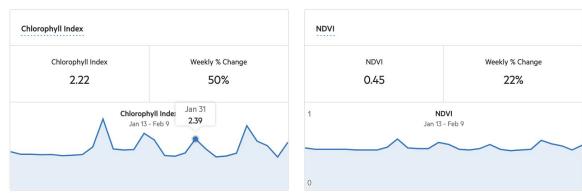
The Irrigation Overview provides a daily summary of both Evapotranspiration and Precipitation.

These two measurements are also shown below, with observed and forecasted accumulations.



#### SITE DETAILS: Plant Tab (2 of 2)





If a season has been defined for the location (set on the Seasons page), **Cumulative Growing Degree Days** and **Crop Growth Stages** will be displayed on this page.

#### Chlorophyll Index and NDVI are

also shown on this page in absolute value and weekly percent change.

Hover your cursor over the graph to see daily values.



#### **GRAPH:** Overview

4

• Map

Analysis

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Sites

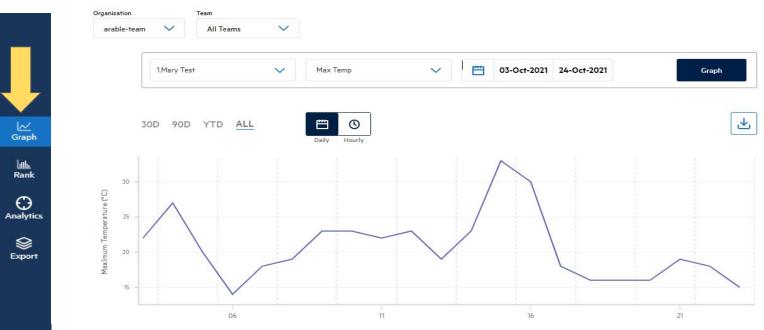
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Search



Select **Graph** from the left-hand menu to visit this page. Here you can combine weather and plant data at one or several Site, all in one view.

In the **Time** view, pick your Site(s), measurement(s), and date range (e.g., last 30 days) before clicking Graph to view your data.

Most measurements have an hourly option and allow the use of a slider at the bottom to focus in on specific time events.



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• Map

4 Analysis

Sites

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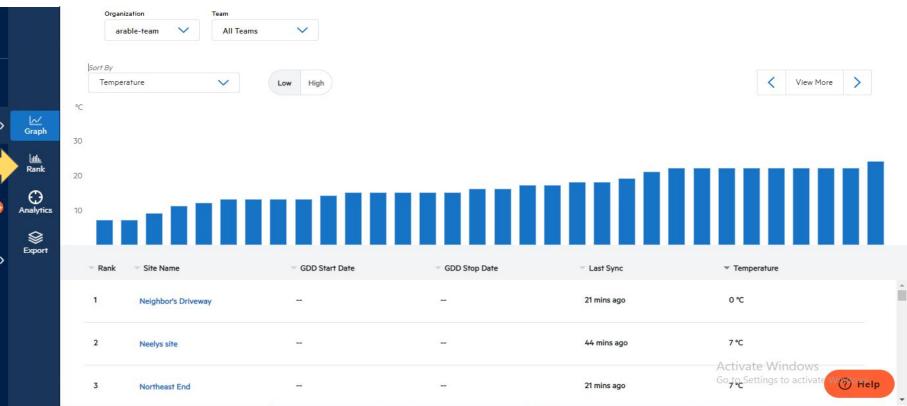
Alerts

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Search

#### **RANK: Overview**



To see how each Site ranks against the others, toggle to **Rank** at the top of the page. Select your preferred measurement (e.g., growing degree days, solar radiation, NDVI, etc.) from the Sort By dropdown to rank your Sites by that measurement.

#### **EXPORT: Overview**

		Organization	Team		
۵		Absolute Foods 🗸	All Teams	~	
● Map					
Analysis	∕∕ Graph				
다. Sites	屾 Rank				
Ω Alerts	Analytics				
(Q) 、	Export				
Settings					
Q Search					

#### Export

te nter site name or device ID	1.test12		$\sim$		
<b>ranularity</b> elect all, hourly, or daily data bles.	All		Hourly	Dail	Y
leasurements ill change dependent upon anularity. ) Download Data Dictionary in PDF	All				
ate Range om first deployment date to day.	18-Apr-2	2022 0	3-Aug-2022		
nits elect your measurement units.	Inches	or	Millimeters		
	Fahrenheit	or	Celsius		
	Millibars	or	Kilopascals		
	Miles per hour	or	Kilometers per hour	or	Meters
ormat elect export format.	CSV				

To export site data, visit the **Export** page and select the site, granularity, date range, and preferred units, then click **Export** to download data as a CSV. The file can be opened with all CSV-compatible platforms, e.g., Excel or Google Sheets.

The export contains summary information at the top (e.g., Date Range and Number of Records) and detailed time-series data below.

Select multiple Sites in the Sites drop-down in order to export data for more than one Site at the same time.

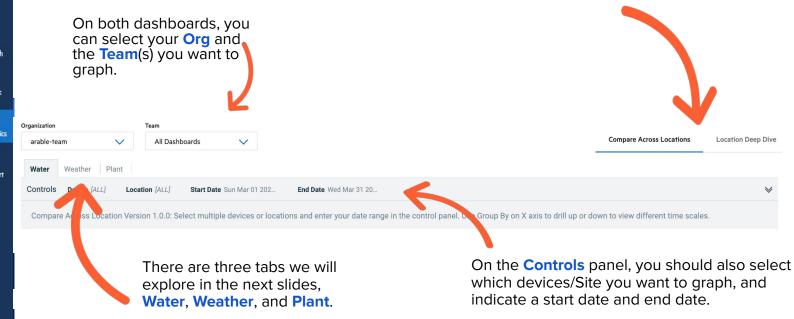
on changing **Teams/ Orgs** from dropdown, the **Sites** dropdown data will also get updated.



#### **ANALYTICS : Overview**



Select **Analytics** from the left-hand menu to access the two dashboards we have recently written about, **Site Deep Dive** (single Site) and **Compare Across Sites** (multi-Site). Toggle between them here.



Interested in something specific? To request a specific model or dashboard (or to discuss feasibility for a data ingest/integration project), reach out your partnership manager.

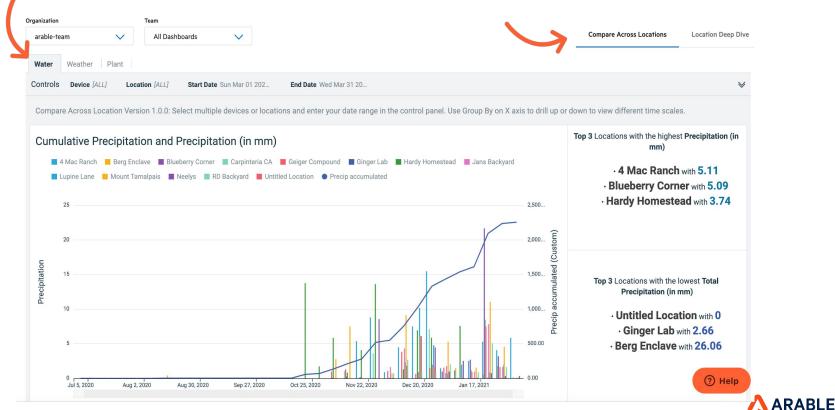
ARABLE

#### **ANALYTICS : Compare Across Sites, Water Tab**



44

Compare Across Sites, Water displays precipitation, ETc accumulation by Site, crop water balance by Site, and average soil moisture at top depth by Site. Top 3 Sites for each measurement are in the right-hand column.



#### **ANALYTICS : Compare Across Sites, Weather Tab**



Search

2 Graph

Rank

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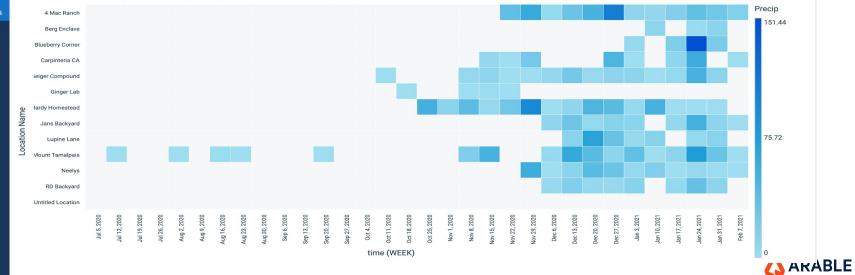
Export

Compare Across Sites, Weather displays precipitation by Sites, heat stress days, vapor pressure deficit, and temperature extremes. Top Sites for each measurement are in the right-hand column.

	Organization		Team							
	AAFC	$\sim$	All Teams	$\sim$					Compare Across Sites	Site Deep Dive
Water	Weather	Plant								
h Contro	Is Device All	Site All	Start Date 202	20/03/01 00:	End Date 2022/12/31 00:	Display Units Imperial	Country All	Tenant All	Chill Hours Temperature Thres 3	6 🖌 🖌

Compare Across Locations Version 1.0.0: Select multiple devices or locations and enter your date range in the control panel. Use Group By on X axis to drill up or down to view different time scales.





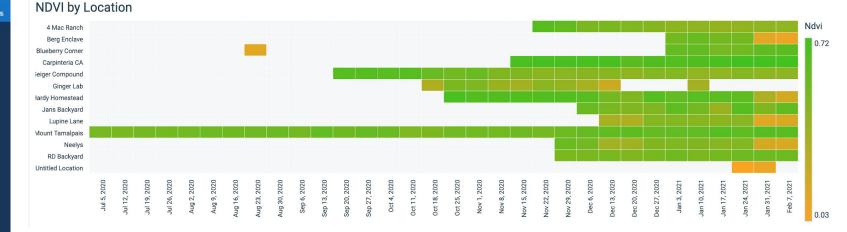
#### **ANALYTICS : Compare Across Sites, Plant Tab**



**Compare Across Sites, Plant** displays NDVI by location, peak NDVI, cumulative growing degree days, chlorophyll index, sunshine duration, sunshine hours, & growing season summary. Top Sites for each measurement are in the right-hand column.



Compare Across Sites Version 1.0.1 : Select multiple devices or Sites and enter your date range in the control panel. Use Group By on X axis to drill up or down to view different time scales.

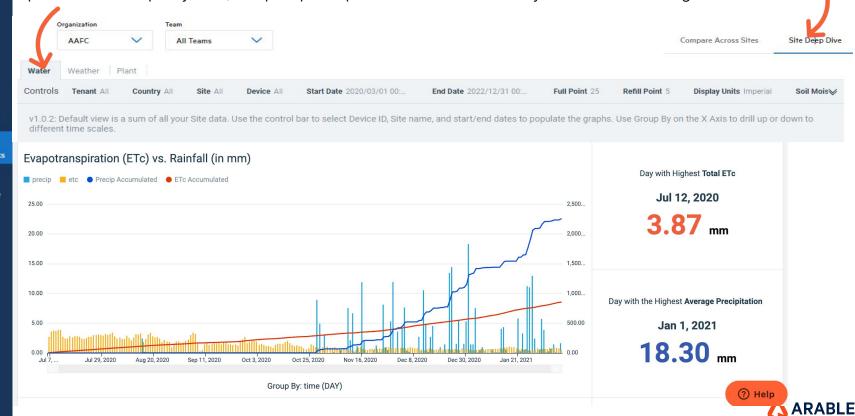




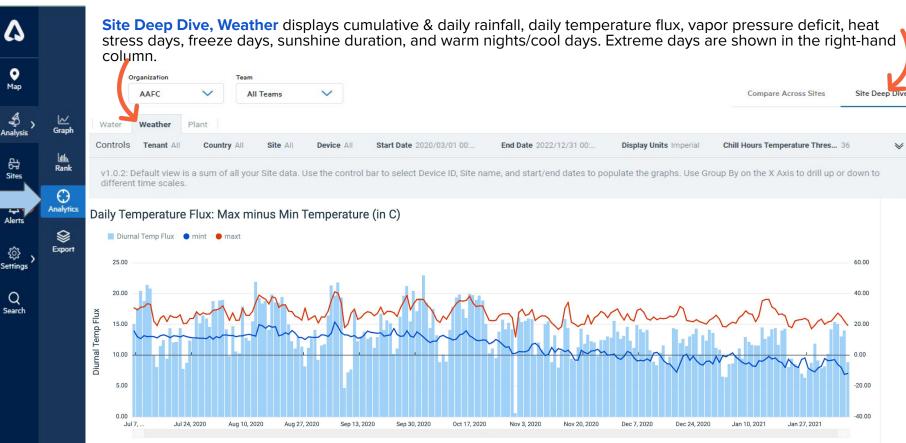
#### **ANALYTICS : Site Deep Dive, Water Tab**



**Site Deep Dive, Water** displays ETc plotted with rainfall, crop water balance, top depth of soil moisture with refill point and field capacity lines, and precip as a percent of ETc. Extreme days are shown in the right-hand column.



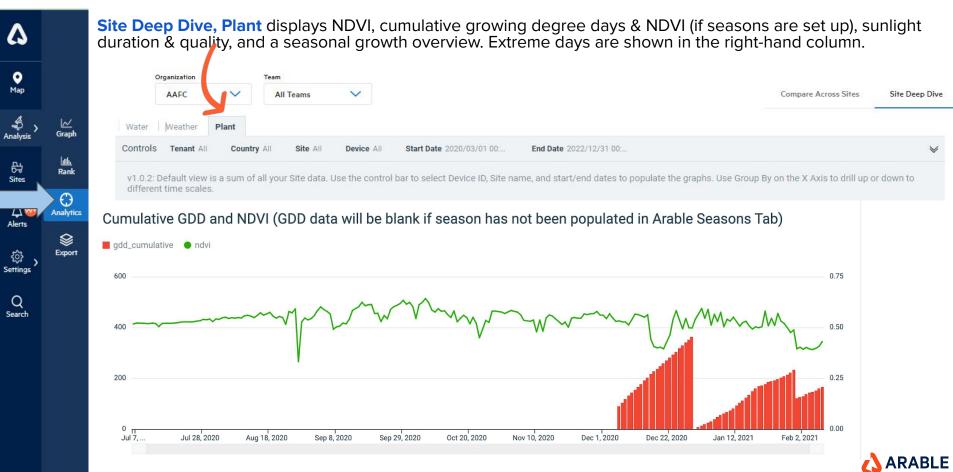
#### **ANALYTICS : Site Deep Dive, Weather Tab**



Group By: time (DAY)

ARABLE

#### **ANALYTICS : Site Deep Dive, Plant Tab**





### Analysis : WATER



There is an optional feature in the web application called 'Water'.

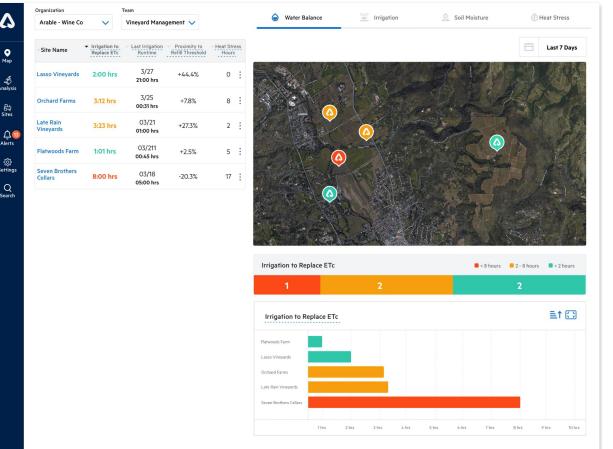
To navigate to the 'Water' (Multi-site) page, click on 'Water' under the Analysis icon.

\*Why we are introducing Multi- Site View ?

Irrigation managers often face trade-offs when deciding which sites to irrigate and for how long. To make informed decisions, they need to understand the water stress, demand, and irrigation deficiencies of each site. A multi-site view can provide instant insights, allowing managers to prioritize their sites and make necessary changes to their irrigation management practices.



#### **Multi-Site View**





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4 Analysis

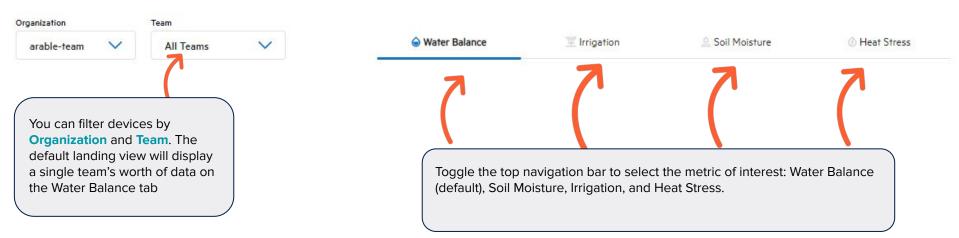
당 Sites

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Search

## **Overview Of Multi-Site Top Bar Selector**



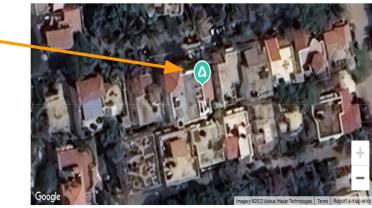


## Multi-Site Map Zoom Management

- Double click on the icon to see the field view (close up). Might need atleast four time clicks.
- Retains the same zoom level on tab and page switching.
- Retains the zoom across site selection also.
- Hover over the locators and it gets highlighted.
- Also maintaining zoom level on doing pagination step.
- Page reload or org switching will not retain zoom levels.
- On selecting another team, zoom level will be retained for the new devices of that team.
- Mouse scrolling is enabled also.
- Single click on one icon, then that will be centerpoint .
- On reaching max zoom level, the buttons will get disabled.

<ul> <li>Site Name</li> </ul>	Irrigation to Replace ETc	<ul> <li>Last Irrigation Runtime</li> </ul>	Proximity to Refill Threshold	<ul> <li>Heat Stress</li> <li>Hours</li> </ul>	
All_Sensor_Ext_ap	-		-831.2%	0	:
B301215 test				-	:
B301311   2023- 01-10 17:08:24	-	12/05 07:45 hrs		0	
C009018_Site	-			-	
Center Pivot Field B301121				0	:











Map

Sites

Alerts

## **Overview of Multi-Site Water table**

	Organization		Team			
	Bayer Br	eeding 💙	All Team	s 🗸		
2	<ul> <li>Site Name</li> </ul>	Irrigation to Replace ETc	<ul> <li>Last Irrigation Runtime</li> </ul>	Proximity to Refill Threshold	✓ Heat Str Hours	
Graph	1-Olmeneta		8 <b></b>		0	-
Water Mater Rank	Agricola C012489	62:23 hrs	04/02 07:44 hrs	+1216.7%	10 Manual Irrigat	ion
	Device	ID	Battery Status		Validate Sense	ors
Street Export	C01248	39	100%	<u>w</u> 1	≓° ●	3
		a a a a a a a a a a a a a a a a a a a	Done with valida	tion		
	Agricola Giadela	08:18 hrs	04/02 07:44 hrs	-	10	
		<< < 1	2 3	4 > >	>>	

\* The multi-site view can be accessed from a new drop-down icon located on the left-hand side of the Arable Homepage, under the Analysis icon.

\* The multi-site table displays measurement data based on the current date, and a colour-coding scheme is used to indicate data from the previous seven days.

\* Each site has three dots that reveal a manual irrigation option, where you can set the irrigation parameters similarly to the single water modal.

\* Clicking on "Validate sensor" option allows you to see device information.

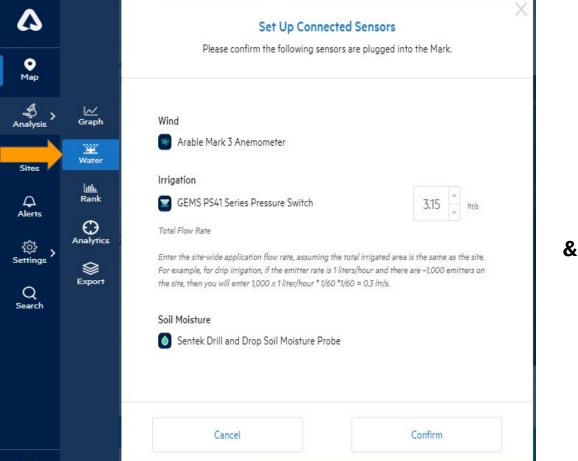
\* To access device information, go to **"Device info"** and click on **"Validate sensors"** under the three dots. You can validate sensors based on the device type (Mark 2/3).

For Mark 3 devices, the connected sensor modal will be static, except for the irrigation sensor flow rate, which you can adjust to your needs using the **GEMS PS41 Series Pressure Switch**.

**ARABLE** 



#### Modals : Validate Sensor & Manual Irrigation



	anual Irrigation htry Table (Historical)			
	- User		- Amount	🕶 Date
		:	10 in	Mar 15, 2023



...

#### **Overview of 'Irrigation to Replace ETc'**

\*The irrigation hours required to meet the specified Replacement ETc can be viewed on the Arable Web Water page's Water Balance visualization.

The Replacement ET % is set by the user and defaults to 100% if a Growth Stage is defined for the measurement period otherwise, it is set to 0%.

This value is only displayed if a flow rate for a GEMS Pressure Switch has been configured for the site.

For the last 7 days **Green** = 2 or less hours **Yellow** = 3 to 8 hours **Red** = 9 or more hours

rable - Wine Co	~	Team Vineyard Manag	gement 🗸			Water Balance	<u> </u>	rigation	0	Soil Mois	ture	٢	Heat Stre	255
		,												
ite Name	<ul> <li>Irrigation to Replace ETc</li> </ul>	- Last Irrigation Runtime	Proximity to Refill Threshold	Heat Stree Hours	s								Last 7	Days
sso Vineyards	2:00 hrs	3/27 21:00 hrs	+44.4%	0		Les D.								
hard Farms	3:12 hrs	3/25 00:31 hrs	+7.8%	8	:				19 2		1 Sing			
e Rain eyards	3:23 hrs	03/21 01:00 hrs	+27.3%	2	:					J.	H			
woods Farm	1:01 hrs	03/211 00:45 hrs	+2.5%	5	:			A.S.		135		A	i,	
en Brothers ars	8:00 hrs	03/18 05:00 hrs	-20.3%	17	:	ale F	15/21	At 1	A.		A	D	1	
									tel en land	and a	5			
					C.S.		Sherry !!	Call of	3		T.			Sec.
					-27.00		1. 1	14 A	1 series			1.20	1	
							13	and a	TE,		J.			
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					Irrigat	tion to Replace ETc		2	ΩÐ.		< 8 hours	2 - 8 hour 2	s • < 2	hours
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					Irriga	1 ation to Replace ETc		2			< 8 hours			hours
					Irrig: Flatwoods Lasso Vin	1 ation to Replace ETC		2			< 8 hours			
					Flatwoods Lasso Vin Orchard F	1 ation to Replace ETC Farm evyards errms		2		•	< 8 hours			
					Flatwoods Lasso Vin Orchard F Late Rain	1 ation to Replace ETC Farm evyards errms		2		·	l < 8 hours			
					Flatwoods Lasso Vin Orchard F Late Rain	Tion to Replace ETC		2			I < 8 hours			

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● Map

4 Analysis

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Q Alerts

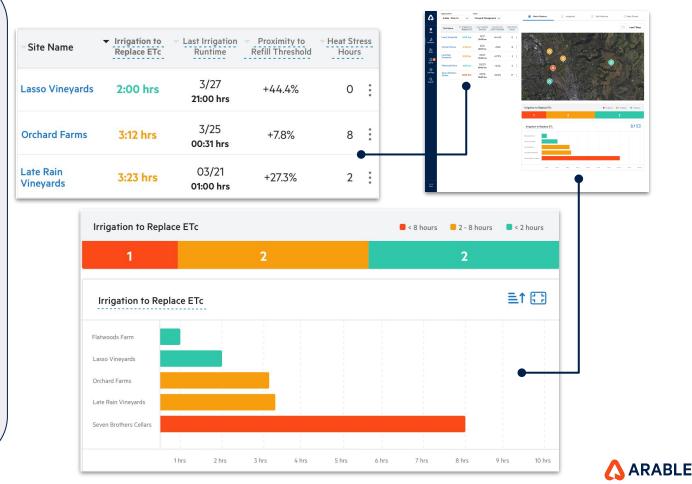
ැබූ Settings

Q Search \* The status bar for **Irrigation to Replace ETc** indicates that sites requiring more than 8 hours of irrigation to replace ETc are colored red. If they require between 2 to 8 hours, they will be colored yellow, and if they require less than 2 hours, they are colored green. Sites without pressure switches will not be included in the status bar. Manually entered irrigation events will not be displayed here, on the map, or in the benchmark graph.

#### \*The Irrigation to Replace ETc Benchmark Graph shows the

irrigation hours required to meet the defined Replacement ETc. The Replacement ET% is set on the Arable Web Water page, Water Balance visual. If a Growth Stage is defined for the measurement period, it will default to 100%, otherwise, it will be 0%. This value will be displayed only if a flow rate for a Gems Pressure Switch is configured for the site.

#### **Overview of 'Irrigation to Replace ETc'**



#### **Overview of 'Last Irrigation Runtime'**

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• Map

4 Analysis

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Settings Q Search

\* The date and amount when an irrigation event was last observed using data from the pressure switch or from data which was manually entered on the Water tab for that site.

\* Last irrigation runtime : Timestamp of last irrigation event and hours of runtime. No colour coding for data.

\* If there was no irrigation event in the last 7 days, the column will remain blank with "--".

\*If an irrigation event is currently taking place we will display **"Currently Irrigating**".

		Team											
Arable - Wine Co	~	Red Wine Team	~		General Water Balance	<u> </u>	Irrigation	_	Soil Me	oisture		🕉 Heat Str	ess
Site Name	<ul> <li>Irrigation to Replace ETc</li> </ul>	Last Irrigation Runtime	Proximity to Refill Threshold	Heat Stress Hours								Last 7	7 Days
asso Vineyards	2:00 hrs	3/27 21:00 hrs	+44.4%	o :		A l		1	1		1		
chard Farms	3:12 hrs	3/25 00:31 hrs	+7.8%	8 :			Y					X	
te Rain neyards	3:23 hrs	03/21 01:00 hrs	+27.3%	2 :		1	1/20	and the second		S.L	-		
twoods Farm	1:01 hrs	03/211 00:45 hrs	+2.5%	5 :	A Contraction	<u>a</u>	1 St		R	$\bigcirc$			
ven Brothers Ilars	8:00 hrs	03/18 05:00 hrs	-20.3%	17 :								A	
					ALAND TO A COMMENT	A Star		a state		S)			
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					1912 303				的作				
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					Irrigation Runtime Hours						: 4hrs 5	- 20 hrs	> 21 hr
					Irrigation Runtime Hours	3	<u>I</u>			1	e 4hrs 🔹 5	- 20 hrs •	> 21 hr
					Irrigation Runtime Hours		Ŷ				: 4hrs 5	1	
							- SA				: 4hrs 5	1	
					Irrigation hours		- M				s 4hrs 5	1	
					Irrigation hours Flatwoods Farm		<u>_</u>				+++4 + 4hrs • 5	1	
					Irrigation hours Platwoods Farm Lasso Vineyands						4 Ahrs 5	1	
					Irrigation hours Flatwoods Farm Lasso Vineyards Orchard Farms						total	1	
					Irrigation hours Flatwoods Farm Lasso Vineyards Orchard Farms Late Rain Vineyards			Diss	1 Dhs		t Ahrs 5	1	> 21 hrs



### **Overview of 'Last Irrigation Runtime'**

\* In the Status Bars, for the last seven days, irrigation sites are color-coded based on the number of hours they have received irrigation. Sites that have received over 21 hours of irrigation are colored dark blue, while those that have received between 5 and 20 hours are colored blue. Sites that have received 4 or fewer hours of irrigation are colored light blue. Please note that sites without pressure switches are not included in the status bar.

In the Benchmark Graphs, the total number of hours that each site has been irrigated over the past 7 days is being reported.



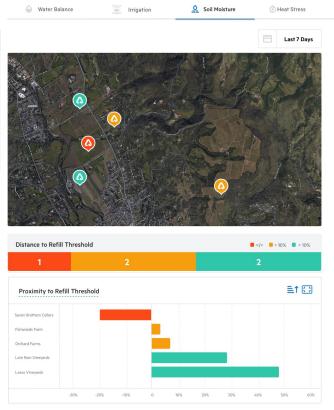
### **Overview of 'Soil Moisture'**

Proximity to Refill Threshold refers to the distance from a site to the soil moisture refill point, expressed as a percentage. It is calculated by subtracting the refill threshold from the mean soil moisture for the measurement period (as a percentage of field capacity). If no soil probe is attached or if the soil moisture measurement has not been configured in the soil moisture graph below, this value will appear blank. The Water tab for each site with a soil moisture probe is where this value can be configured.

For the last 7 days Light Blue = 4 hours or less Blue = between 5 and 20 hours Dark Blue = 21 or more hours.

More

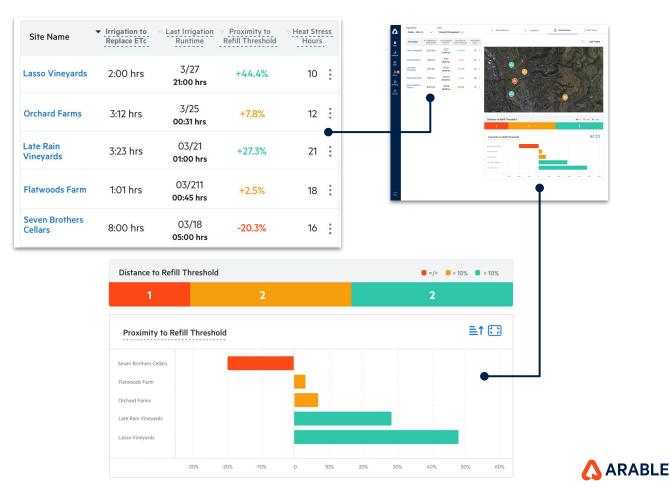
Organization		Team			
Arable - Wine Co	~	Vineyard Mana	igement 🗸		
Site Name	<ul> <li>Irrigation to Replace ETc</li> </ul>	<ul> <li>Last Irrigation Runtime</li> </ul>	<ul> <li>Proximity to Refill Threshold</li> </ul>	- Heat Str Hours	
Lasso Vineyards	2:00 hrs	3/27 21:00 hrs	+44.4%	10	
Orchard Farms	3:12 hrs	3/25 00:31 hrs	+7.8%	12	
Late Rain Vineyards	3:23 hrs	03/21 01:00 hrs	+27.3%	21	ļ
Flatwoods Farm	1:01 hrs	03/211 00:45 hrs	+2.5%	18	8
Seven Brothers Cellars	8:00 hrs	03/18 05:00 hrs	-20.3%	16	



### **Overview of 'Soil Moisture'**

The 'Proximity to Refill Threshold' status bars indicate the proximity of sites to the refill point. If a site is at or below the refill point, it will be colored red. If it is within 10% above the refill point, it will be colored yellow, and if it is above 10%, it will be colored green. Sites without soil probes will not be included in the status bar.

The benchmark graphs indicate the proximity of a site to the refill point set in the soil moisture graph. This value is calculated as the mean soil moisture for the measurement period (as a percentage of field capacity) minus the refill threshold. If no soil probe is attached or if the soil moisture measurement has not been configured in the soil moisture graph below, this value will appear blank.

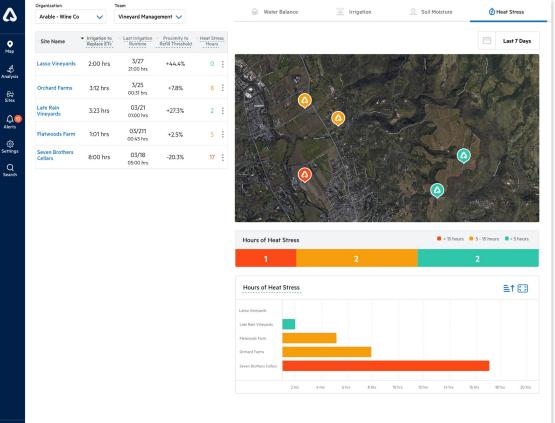


The Heat Stress Hours metric represents the total number of daylight hours in which the air temperature has been above the crop-specific GDD (Growing Degree Day) max temperature threshold for the selected time period at the site.

If the GDD max temperature threshold has not been defined for the crop in the system, a default value of 96°F is used.

For last 7 days: **Green** = <5 hours Yellow = 5-15 hours **Red** = > 15 hours

#### **Overview of 'Heat Stress'**



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### **Overview of 'Heat Stress'**

The **'Heat Stress Hours'** status bars indicate the level of heat stress experienced by sites. Sites with more than 15 hours of heat stress will be colored red. Sites with between 5 and 15 hours of heat stress will be colored yellow, and sites with less than 5 hours of heat stress will be colored green.

The benchmark graphs for Heat Stress Hours show the total number of daylight hours in which the air temperature has been above the crop-specific GDD (Growing Degree Day) max temperature threshold for the selected time period at the site.

If the GDD max temperature threshold has not been defined for the crop in the system, a default value of 96°F is used.



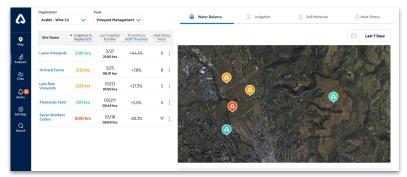
64

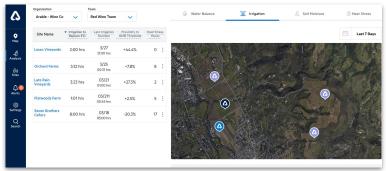


#### **Overview of Multi-Site Map View**

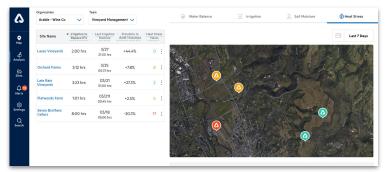
The icons on the map will change according to the selected metric, as the user navigates between the different metrics using the top bar icons. The Map View icons will be highlighted using the color-coded logic.

#### Water Balance View



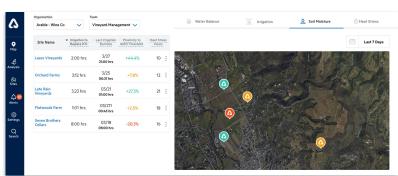


#### Heat Stress View



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Soil Moisture View

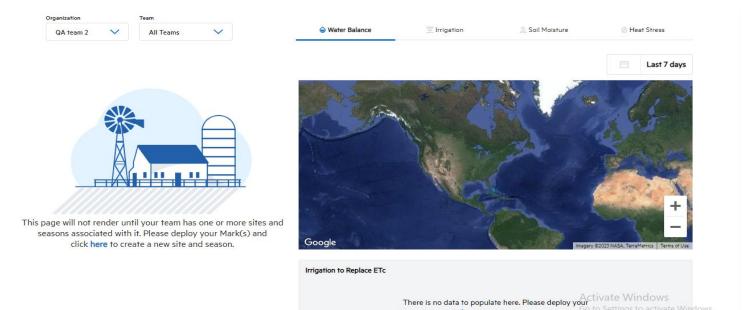


#### Irrigation View

#### If users have no sites configured they will see a prompt to set up Sites

If an organization or team does not have a site, clicking on the 'here' sublink will take you to the Create Site Modal page.

As a result, the user will need to create a new site and season.



ge.arable.com/dashboard/analysis/multisites/list/(tab:multiSiteWater)

Mark(s) and click here to create a new site and season.

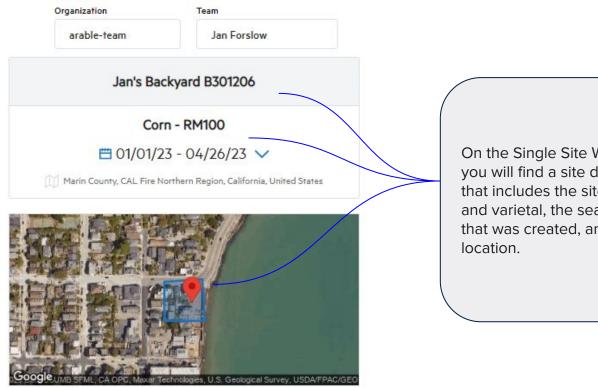


# SINGLE SITE DETAILS: 'Water'

Organization	Team	Weather Plant	Water No	otes	Sexport G
arable-team	Jan Forslow				
Jan's B	ackyard B301206	Water Summary			
Ca	orn - RM100	Water Balance Change	Irrigation to Replace ETc	Soil Moisture	Total Heat Stress Ho
<b>= 01/01</b> /	23 - 04/26/23 🗸	0"		- 27.9%	0
Marin County CAL Fire	Northern Region, California, United States	Precipitation + Irrigation - Replacement ETc	Runtime needed to replace Target ETc	Proximity to Refill Threshold	Temperature Threshold: 86°F



## **Overview of 'Single Site Water' page components**



37.84964, -122.48019

On the Single Site Water page, you will find a site description that includes the site name, crop and varietal, the season duration that was created, and the device



### **Overview of 'Single Site Water' page components**

**Water Balance Change:** This was previously filled with cumulative Water Balance values and shall now be filled with values from the Water Balance Change row in the table. This denotes the equation: Precipitation + Irrigation - Replacement ETc and is the amount of water needed to match desired water balance for the week.

**Irrigation to Replace ETc:** The irrigation system runtime needed to meet the defined Replacement ETc. The Replacement ET % is set in the Arable Web Water page, Water Balance visual. It will default to 100% if a Growth Stage is defined for the measurement period and otherwise it will be 0%. This value will only populate if a flow rate for a Gems Pressure Switch has been configured.

**Soil Moisture:** If the soil moisture reference values have not been defined by the user or if there is no probe attached to the site then there will be no data displayed in this visual.

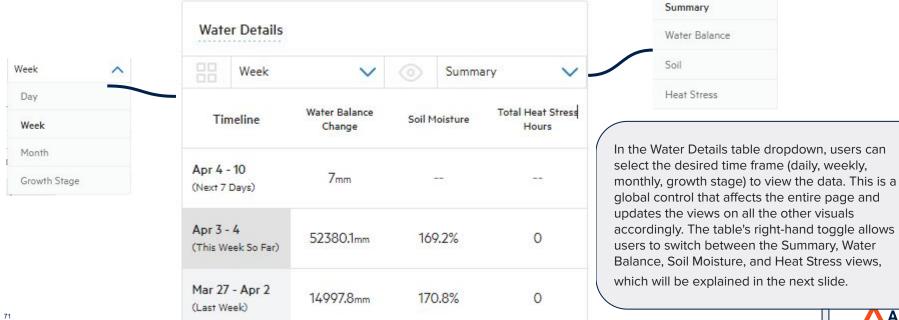
**Total Heat Stress Hours :**The total number of daylight hours during which the air temperature is above the GDD max temperature threshold for the crop at the site since the start of the current season. If the GDD max temperature threshold is not defined for the crop in the system, then a default of 96°F is used.

ARABLE



### 'Single Site Water' : Components : - Water Details

When you land on the single site water page, the water details table will display weekly historical data, current data, and forecast data.



ARABLE

Wate	e <mark>r Detai</mark> l	S			
	Day		<b>v</b> (0)	Water Balar	nce 🗸
Tir	meline	Water Balance Change	Replacement ETc	Precipitation	Irrigation
Apr 4 (Next 7		1.7mm	8.3mm	10mm	(
Apr 4 (Today)	1	41 <mark>1</mark> 55.4mm	1.6mm	Omm	41157mm
Apr 3	day)	52380.1mm	1.5mm	Omm	52381.7mm

Growth Stage view 'Heat Stress' data

	Мо	nth viev	v So	oil D	ata
Wate	er Details				
	Month	$\sim$		Soil	~
Tir	meline	Soil Moisture		1oisture lange	Proximity to Refi Threshold
Apr 4 (Next 7					
Apr 1 - (This M		170.1%	-(	).6%	+100.1%
Mar 27	7 - 31	170.7%			+100.7%

Wate	er Details				
	Growth Stage	~		Heat Stress	~
Timeline		Heat Stress Hours		Total Heat Stress Hours	
Apr 4 - 10 (Next 7 Days)				1000	
planting date (Current)		0		0	



# 'Single Site Water' : Components : Growth Stage

Based on the number of 'Growth stages' created while creating a 'Season', you will see this information in the Growth stage bar line.



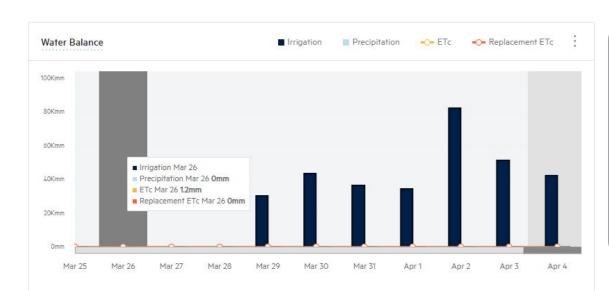
The Growth Stage feature in our application marks the physiological development of a plant throughout its life cycle, which is primarily driven by heat, light, or the combination of both. These stages occur at progressive Growing Degree Days and are unique to a crop or even a varietal. They are essential for a range of timed applications and events, such as irrigation, inputs, pests/disease risk, frost risk, deficit irrigation strategies, and insurance policies. We offer default Growth Stages for some varieties, but users can also edit or enter their own if they have the necessary information.



# 'Single Site Water' : Components : Water Balance

Users can view a graph with their water inflows and outflows broken down by daily, weekly, or monthly views. Inflows (precipitation and irrigation) will be stacked and colored as shown below, and outflows (ETc and replacement ETc) will also be stacked and colored accordingly. The values of each bar will be expressed in either millimeters or inches depending on the user's settings. The default view will show weekly values. Forecasted data will have a white backdrop, current day's data will have a shaded backdrop, and observed data will have a gray backdrop. Forecasts for the following timestamps will be aggregated as follows: daily - next 7 days, weekly - next 1 week, monthly - no forecast (since we don't have a monthly forecast available for the next 1 week), growth stage - no forecast since we don't predict future growth stages.

Activata Mindaue



**ETc** (evapotranspiration) : This represents the Arable Canopy Evapotranspiration at the site for the given measurement period on the x-axis. If there are multiple Marks associated with the site, their individual ETc values will be averaged.

**Replacement ETc** is the percentage of ETc that you would like to replace through irrigation. This can be configured by clicking on the three dots located on the right-hand side of the modal. For example, to irrigate and replace 80% of the observed ETc, a user can set the value for the current growth stage to 80. The values between 0 to 200 are accepted.

ARABLE



# 'Single Site Water' : Components : Sub Option of Growth Stage

\* User can set the irrigation manually and ETc Replacement %, which is showing in below option:-







# 'Single Site Water' : Components : Sub Option of Growth Stage

Enter manual irrigation amounts and runtimes on a pop up visual as the water balance. This will adjust the running water balance equation for the entire site's history. Users may enter amounts in inches or millimeter.

💌 Date	- Amount		- User	
Aug 16, 2022	457.2 mm	:	test.automation@arable.c	om i
Oct 4, 2022	25.4 mm	:	poweruser+arable-team@aral	ole.com
Dec 4, 2022	2 mm	:	vishal.gupta@arable.cor	Copy Amount to New Date
Dec 6, 2022	118 mm	:	vishal.gupta@arable.cor	n
Jan 10, 2023	254 mm	:	vijayapriya_orgadmin@arabl	e.com
Jan 11, 2023	304.8 mm	:	vijayapriya_orgadmin@arabl	e.com

## Manual Irrigation





# 'Single Site Water' : Components : Sub Option of Growth Stage

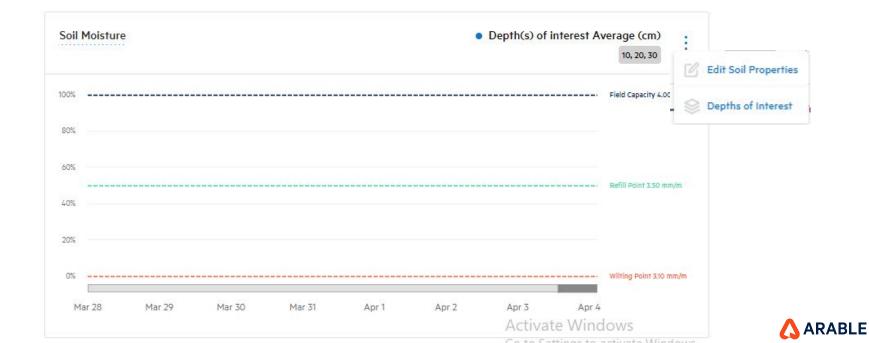
Enter ET Replacement %. The ET replacement % will determine the shaded area of the ET bar chart. If no ET replacement % is set then only ETc will be displayed on the graph. Set ET replacement percentages by growth stages. Enter values ranging from 0 to 200%. Default '% of ETc' values will be 100.

Growth Stage	% of ETc
start	100.00
mid	100.00
end	100.00





View an average of selected depths of interest that soil moisture probe measures. Set a Field Capacity, Refill Threshold, and Permanent Wilting Point expressed based on soil textures.



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\*If no soil probe has been detected, the graph will display a message that says "No soil probe has been detected. Please contact <u>support@arable.com</u> if you would like to add a soil moisture probe

\*If one or more probes are detected, you can select different depths of interest to create a line depicting the average soil moisture of all of their depths.

Soil Moisture	
	No soil probe has been detected.
Please contact support	<u>@arable.com</u> if you would like to add a soil moisture probe.
	Activate Windows





\*If you have multiple probes associated with site, see the average of all of those depths across the multiple probes.arriving on the page users shall be prompted to select their depth(s) of interest.

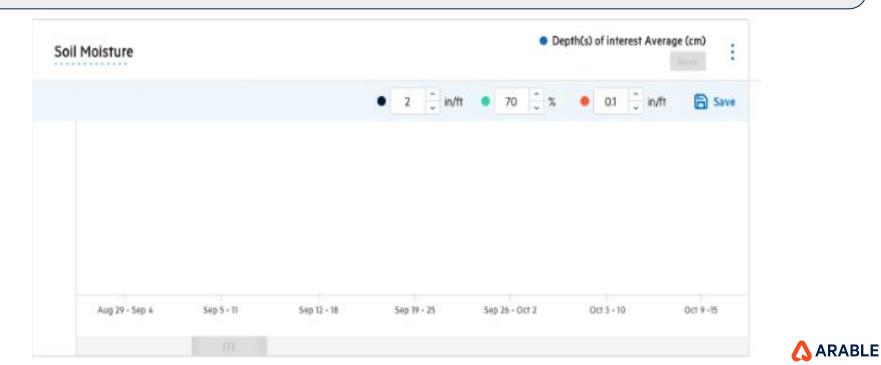
Soil Moisture Please click here to set Depths of Interest and get started





\*First, enter reference lines for Field Capacity, Refill Threshold, and Permanent Wilting Point.

NOTE: If the site has a soil probe, you MUST first add soil properties before setting a depth of interest and the stress point must be equal to or less than the refill point.





Choose from a drop down selector to choose the depths of interest. The drop down will show all available depths.Depending on the size of the probe(s) associated with the site, depths range from 10 cm to 120 cm.

Note: If the site has a soil probe, the user should first add soil properties before setting a depth of interest.

Soil N	Moisture											est Average		:
										10, 20, 30, 40	1, 50, 60, 70, 8	0, 90, 100, 110	, 120	
	0 10 cm	🕑 20 cm	<b>3</b> 0 cm	0 40 cm	0 50 cm	0 60 cm	🔿 70 cm	🕑 80 cm	<b>9</b> 0 cm	O 100 cm	0 110 cm	O 120 cm	6	Save
8.5														
в														
7.5														
6														
	Aug 29 - Sep		Sep 5 - 11		Sep 12 - 18		Sep 19 - 2		Sep 26 - Oc		Oct 3 - 10		Oct 9 -	







# VISION - App Admin (Configuration)

Кеу	Description	Orgs	Users	Enabled	l Everywhere	
water	use the water feature	23	36	×		
vision ┥	use the vision feature	None	27	×		
sites	use the sites feature	428	12	×		
Feature Fl	ags					Home / Feature Flags
Feature Flag	g Settings					
Key						
vision						
Description (	optional)					
use the visio	on feature					
🗆 Enable Eve	rywhere (optional)					
Update						
Users ┥	-					
@ Email			۹		Email	Add User
Email					Actions	
Orgs ┥					Org Nam	e Add Org
Org		Actions				

- The '*Vision feature flag*' can be Added and Removed under vision menu

- The Vision feature can be Added and Removed for each user and user roles by adding their respective mail Id under '*User*'

- The Vision feature can be Added and Removed for the Organization by adding their respective Org name under '*Orgs*'





# VISION - App Admin (Configuration)

The App Admin as the access to 'Enable' and 'Disable' the Vision license for all the Mark3 devices.

- The Vision license option will be present on the last column for each Mark3 devices under Devices menu.
- On enabling the option the Vision license will be provided for the specific device and the device starts capturing the images.
- On disabling the option the Vision license will be disabled for the specific device and the device stops capturing the images.

Org	Device	Current Location	Battery %	Signal	State	Firmware	Last Sync	Last Deploy	Vision
arable- team	B301255	B301255   2023-06-08 03:16:08	70.0	Very Good	Active	Release- 2.1.106.6	20 minutes ago	7 days ago	

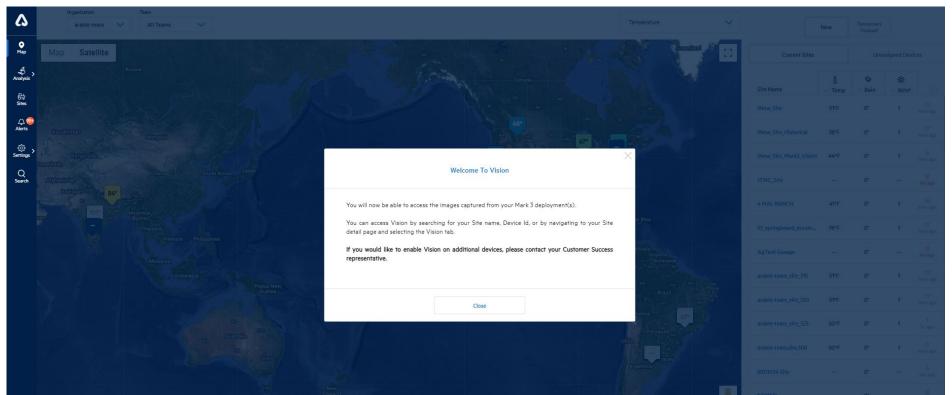
On clicking on the "check box" the "Vision license" will be enabled for the Mark3 device

Org	Device	Current Location	Battery %	Signal	State	Firmware	Last Sync	Last Deploy	Vision
arable- team	B30042	B30042   2023- 06-19 05:10:44	98.0	Very Good	Inactive	PostmanRuntime/7.32.2	a day ago	a day ago	

On clicking on the "check box" the "Vision license" will be Disabled for the Mark3 device

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## **Welcome To Vision**



The step screen is displayed on login shows "*Welcome To Vision*" indicating the user has access to Vision feature for there Mark3 deployment(s) and can enable the Vision feature for other Mark3 devices by contacting the Customer Success



# SINGLE SITE DETAILS: 'Vision'

The 'Vision' tab for a single site can be accessed by clicking on a site detail page from the homepage. It will appear in between the 'Water' and 'Notes' tabs.

	Team				Weather	Plant	Vision	Notes	Sexport	Lill Graph
arable-team	All Tea	ams					-			[
		Acti	ve Site					Deployment	View	
	Bangalore East	, Bengaluru Urban Dis	trict, Karnataka, India	a (1) Marks				B301028   2023-05-08 20:42:50 🗸	All Images	~
	Google	12.904	Hazar Technologias Tai 671, 77.68616	ms Report a map error			E	Ne Vision is not enabled.		
	Site's Device	e List				Ple		stomer Success to enable this feature		
	() Local	Site Time: 11:05 a	m							
		Deployment	Deployment Status	Connected Sensors						
	Device ID	Name								

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••• More

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● Map

4 Analysis

> 당 Sites

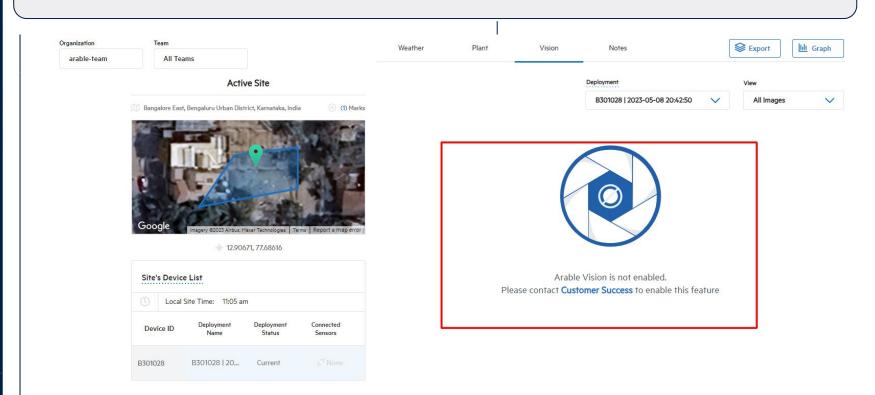
Alerts

දිරි Settings

Q Search

# SINGLE SITE DETAILS: 'Vision License Disabled'

The 'Vision' tab with a message 'Arable Vision is not enabled. Please contact Customer Success to enable this feature' indicates the Vision license is disabled for the specific Mark3 device





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• Map

4 Analysis

> 당 Sites

Alerts

중 Settings Q Search

# SINGLE SITE DETAILS: 'Vision License Enabled'

The 'Vision' tab with a message 'The selected deployment does not have any images available. Please check back again later' indicates the Vision license is enabled for the specific Mark3 device

arable-team	Team All Team	15			Weather	Plant	Vision	Notes	Sexport Graph
		arable-tea	am-site-308					Deployment	View
	Marin County, Ca	ilifornia, United State	s	(2) Marks				B301002   2022-11-19 08:25:38 V	All Images
	Google	<b>37.849</b>	Map data 62023 Ten 5, -122.48021	Report a map error		The co		ent does not have any images availab	
		list				The se		e check back again later	Jie.
	Site's Device						T Tedate	check back again later	
		ite Time: 9:31 pm					T icuse	Check Dack again later	
			Deployment Status	Connected Sensors					
	Local Si Device ID	ite Time: 9:31 pm Deployment	Deployment						



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• Map

4 Analysis

> 당 Sites

Alerts

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Q Search

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# SINGLE SITE DETAILS: 'No Mark3 Devices'

The 'Vision' tab with a message 'No Mark3 devices deployed in this site.' under Site's Device List indicates the site does not have any Mark3 device associated to the site. The '*Deployment*' and the '*View*' will be greyed out has 'Mark2' does not support the 'Vision feature'.

	Team		Weather	Plant	Vision	Notes	Sexport	I Graph
arable-team	All Teams				-	_		
	Akash site					Deployment	View	
	🗍 Chilanga District, Lusaka Province, Zambia	(0) Marks				No Deployments 🗸 🗸	All Images	~
	Google Map Date -15.54796, 28.24945	Terre Report a map error			(			
	Site's Device List					e Vision is not enabled.		
	Site's Device List			DIa				
	Local Site Time: 7:28 am			Fle	ase contact <b>Cus</b>	tomer Success to enable this feature		
		Connected Sensors		Fie	ase contact <b>Cus</b>	tomer Success to enable this feature		
	Local Site Time: 7:28 am			FIE	ase contact <b>Cus</b>	tomer Success to enable this feature		



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• Map

Analysis

당 Sites

Alerts

දිරි Settings

Q Search

> ••• More

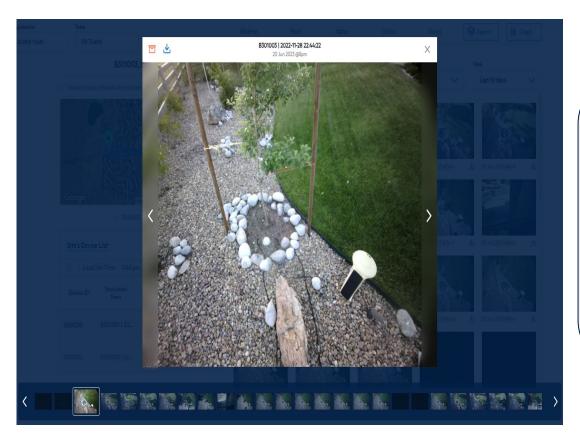


# SINGLE SITE DETAILS: 'Gallery View'

eather	Plant	Vision	Notes		Se Exp	port Lu Gr	aph	
			Deployment		View			
elect			All Deployments	~	A	ll Images	~	
: 2023 @5am	ප් 06 Dec 2023 (	⊋4am 🛃	06 Dec 2023 @3am 🛃	06 Dec 2023 @2am	<u>بر</u> د	)6 Dec 2023 @1am	Ŀ	Gallery View consist of the following information - Select Button - 'Deployment' Drop Down - 'View' Drop Down - 20 Images per page
ec 2023 @12am	05 Dec 2023 @	⊇11pm 🕹	05 Dec 2023 @10pm	05 Dec 2023 @9pm	<u>ب</u>	05 Dec 2023 @8pm	J.	<ul> <li>Download button on each image</li> <li>Image captured Date and Time on each Image</li> </ul>
c 2023 @7pm	05 Dec 2023 @	⊇ópm yu	05 Dec 2023 @5pm	05 Dec 2023 @4pm		D5 Dec 2023 @3pm	J.	Note : Gallery View supports ' <i>Lazy Loading</i> ', can be scrolled Up and Down to view more Images in it exceeds more than 20 images.
	05 Dec 2023 (		05 Dec 2023 @12pm	05 Dec 2023 (etc)m		05 Dec 2023 @flam		
					1			



# SINGLE SITE DETAILS: 'Image View'

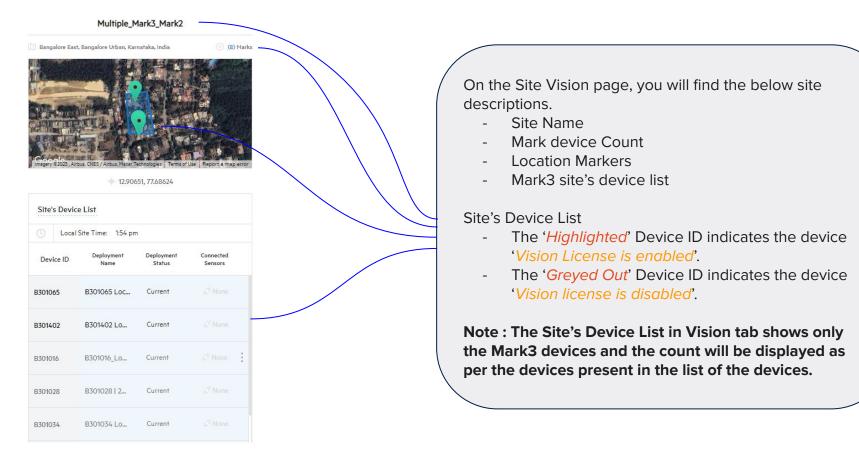


On selecting any image from gallery the Image View is displayed and consist of the following information.

- Archive Button
- Download Button
- 'Deployment' Name on each Image
- Image captured Date and Time on each image
- Close Button
- Left/Right Arrow key to view Next/Previous Image
- Scroll bar with multiple Images and can be selected any Image to view



# **Overview of the Vision Component Page**





# **Overview of the Vision Component : 'Deployment and View'**

## **Deployment Lists**

# Bit Bit</th

All Images

All Images

Archived

The *Deployment* Drop Down lists consist of the following information.

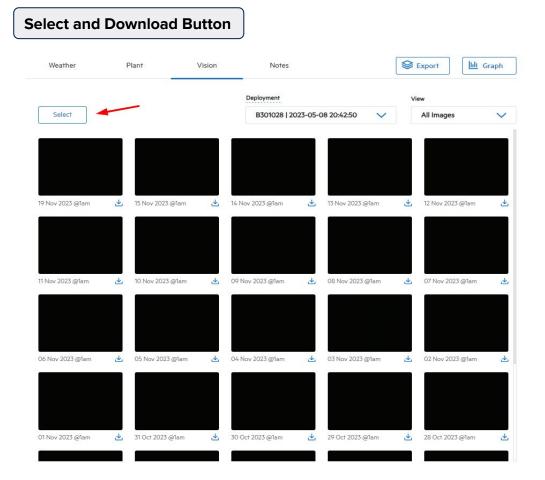
- The Deployment drop down will show all the Devices associated with the site.
- *All Deployment*' will show the images captured by all the Current and Historical Mark3 devices associated with the site.
- Selecting any deployment will display the images captured by that devices.
- A '*logo*' present initial to the deployment name indicates that the location is '*Historical*' but the images are present.
- Vision license enabled deployment name will be '*Highlighted*'.
- Vision license disabled deployment name will be 'Greyed Out'.

The '*View*' consist of the following information.

- The View acts has an filter where the images can be filtered for All Images and Archived.
- The '*Archived*' will show the images which is archived from the other view i.e., from All Images.



# **Overview of the Vision Component : 'Select and Download'**



- The 'Select' button is present on the top left corner in the Image grid

- Multiple/Single Images can be selected for any of the '*Deployment*' by clicking on the Select button first, later selecting the Images

- The 'Select' button is used for '*Archiving*' the Images from '*View*' of All Images.

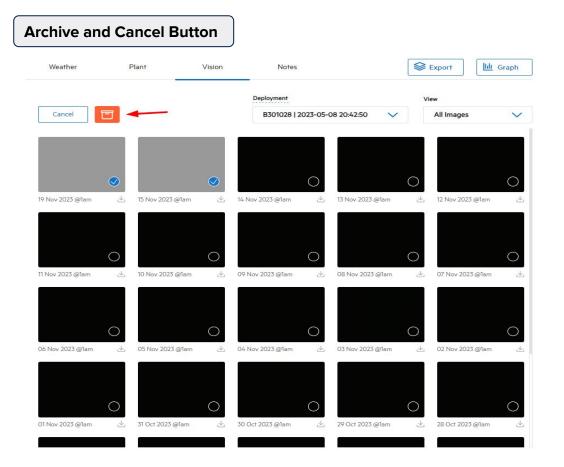
- The 'Select' button is also used for '*Restoring*' the Images from the Archived '*View*'.

- The '*Download*' button will download the Image to your system





# **Overview of the Vision Component : 'Archive and Cancel in Gallery View'**



- The '*Archive*' button is present on the top left corner in the Image grid

- The Archive button will appear '*Red*' in color after selecting Single/Multiple Images

- The Cancel Button is used to cancel the selected Images

- The Archive button is present for *All Deployments*' and *'single deployment*' for all the *'View*' i.e., All Images.



# **Overview of the Vision Component : 'Archive of Images from Gallery View'**

All Teams  Active Site  Active Site  Cancel  Bangalore East, Bengaloru Urban District, Karnataka, India  Other Site  Cancel  Cancel Cancel Cancel  Cancel  Cancel Cancel Cancel Cancel Cancel Cancel Cancel Cancel Cancel Canc	Team					Vision	Notes			
Image: Excel						12	<u></u>			
Bingdore East, Bingdore E		Active Site					Deployment		View	
TO da 2023 gém S Dod 2023 gém							B301028   2023-05-	08 20:42:50 🗸 🗸	All Ima	iges 🗸 🗸
Google   L200071,7728816   Site's Device List   Image:   Local Site Time:   115 am   Device ID   Name   Satus   Satus   Sensors   02 Oct 2023 giam   01 Oct 2023 giam   02 Oct 2023 giam   03 Oct 2023 giam   04 Oct 2023 giam   05 Oct 2023 giam   05 Oct 2023 giam					. 16 Oct 20	23 @lan 🛃 🤇	0		0	0.
Are you sure you want to archive the selected 2 images?	Google			A						
Image: Contract Time:       Table Stre Time:       Table Stre Time:       Cancel       Confirm       00 Cot 2023 gitsm       01 Cot 2023 gitsm <td>Citada Davias Lint</td> <td></td> <td>U</td> <td>Are you sure you wan</td> <td>t to archive the</td> <td>selected 2 images?</td> <td>0</td> <td></td> <td>0</td> <td>0</td>	Citada Davias Lint		U	Are you sure you wan	t to archive the	selected 2 images?	0		0	0
Device ID       Deployment Name       Deployment Status       Concertor Sensors       Concertor Sensors <thconcertor Sensors       Concertor Sen</thconcertor 							am 🔬			
Device ID     Name     Status     Sensors       B301028     B301029 I 20     Current     Cl Itania       C     C1 Cd 2023 gitam     30 Sep 2023 gitam     29 Sep 2023 gitam				Cancel		Confirm				
										~
O O O O O O O O O O O O O O O O O O O				02 Oct 2023 @1am	O 1 Oct 20	ل 23 @fam 👌 :	0 30 Sep 2023 @1am 上	29 Sep 2023 @1am	ن کے ا	.2023 @1am 🖳
27 Sep 2023 @lam 👌 26 Sep 2023 @lam 👌 25 Sep 2023 @lam 👌 24 Sep 2023 @lam 👌 23 Sep 2023 @lam 👌 23 Sep 2023 @lam					0	0	0		0	0
				27 Sep 2023 @lam	<u>분</u> 26 Sep 2	123 @lam 관	25 Sep 2023 @1am 🔬	24 Sep 2023 @1am	🖄 23 Sej	2023 @1am 🖳

- The selected Single/Multiple Images can be archived by clicking on the archived button

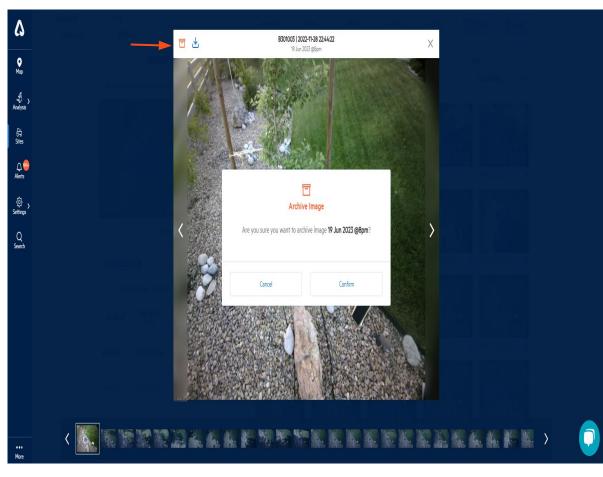
- A pop up message will be displayed on clicking the archive button indicating the selected image can be '*Archived*'

- Based on the action provided the 'Confirm' button will archive the selected Images and the 'Cancel' button will discard the message

- The archived Images will be present under '*Archived*' view



# **Overview of the Vision Component : 'Archive and Download of Image from Image View'**



- The selected Image can be 'Archived' and 'Download' by clicking on the button which is present on the top left corner of the Image.

- A pop up message will be displayed on clicking the archive button indicating the opened Image can be '*Archived*'

- Based on the action provided the 'Confirm' button will archive the selected Image and the 'Cancel' button will discard the message

- The archived Images will be present under '*Archived*' view

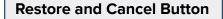
- Single Image can be archived and downloaded from the Image View





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# **Overview of the Vision Component : 'Restore and Cancel in Gallery View'**



ganization	Team				Weather	Plant	Water	Vision		Notes		Export	LIL Graph
arable-team	All Te	ams											Contraction of the second seco
	B301003_Location						Deployment		View				
	🕅 Boulder County, Colorado, United States 💿 (2) Marks			Cancel	] 🗕		All Deploym	ients	$\checkmark$		Archived	~	
	(				20 Jun 2023 @8pm	✓ 20 Jun	2023 @7pm	20 Jun 2023 @ópm		0 Jun 2023 @5pm	0	20 Jun 2023 @	4pm ⊻
	Google		Use Report a map error	20 Jun 2023 @5pm	20 Jun	2003 @2pm	20 Jun 2023 @1pm	<ul> <li>21</li> </ul>	0 Jun 2023 @12pm	0	20 Jun 2023 @	Ham 🔮	
	Site's Device List											20 JUL 2020 (2	
	Local	Site Time: 2:33 ar Deployment Name	n Deployment Status	Connected Sensors	. 0.	0	0.0		0	0	0	. C	•
	B301330	B301330   20	Current	⇒ ≖ ●	20 Jun 2023 @10am	🛃 20 Jun	2023 @9am 😃	20 Jun 2023 @8am	2 ك	0 Jun 2023 @7am	*	20 Jun 2023 @	6am 🛃
	B301003	B301003_Lo	Current	£ <sup>7</sup> None	. 0				No De				
					19 Jun 2023 @8pm	✓ 19 Jun	2023 @7pm	19 Jun 2023 @6pm	✓ 15	9 Jun 2023 @5pm	<ul> <li> </li> </ul>	19 Jun 2023 @4	pm 🖄

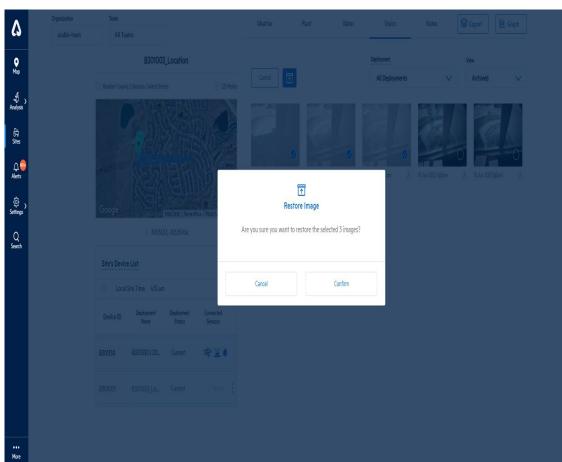
- The '*Restore*' button is present on the top left corner in the Image grid

- The Restore button will appear '*Blue*' in color after selecting Single/Multiple Images

- The Cancel Button is used to cancel the selected Images

- The Restore button is present for 'All Deployments' and 'Single Deployment' only under the 'Archived' View

# **Overview of the Vision Component : 'Restore of Images from Gallery View'**



- The selected Single/Multiple Images can be restored by clicking on the restore button

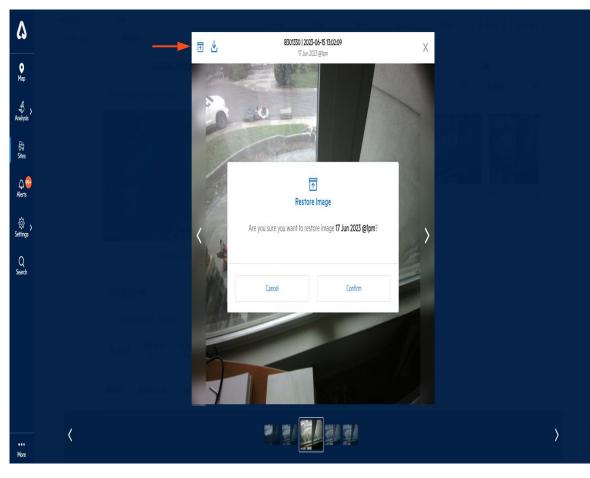
- A pop up message will be displayed on clicking the restore button indicating the selected image can be '*Restored*'

- Based on the action provided the '*Confirm*' button will restore the selected Images and the '*Cancel*' button will discard the message

- The restored Images will be sorted and moved to there original position from were the Images were 'Archived'



# **Overview of the Vision Component : 'Restore and Download of Image from Image View'**



- The selected Image can be *Restore*' and *Download*' by clicking on the button which is present on the top left corner of the Image.

- A pop up message will be displayed on clicking the restore button indicating the opened Image can be '*Restored*'

- Based on the action provided the 'Confirm' button will restore the selected Image and the 'Cancel' button will discard the message

- The restored Images will be sorted and moved to there original position from were the Images were 'Archived'

- Single Image can be restored and downloaded from the Image View





# Hubspot : Chat Bubble Icon



Introduction: Hubspot chat bubble is based on knowledge base and support bot.

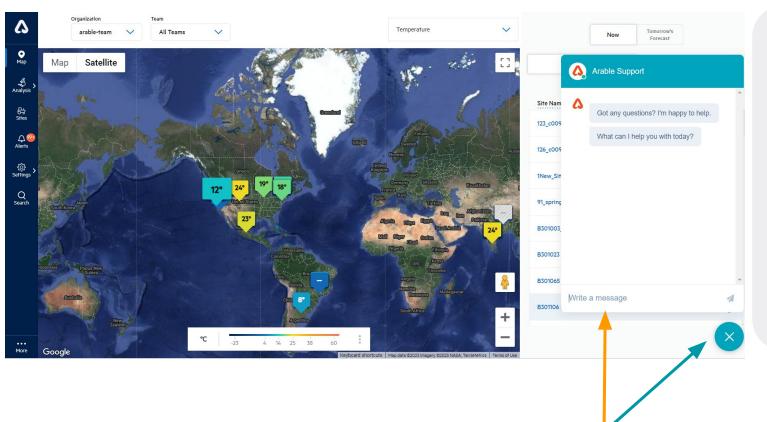
It will be used for Customer Support ticket management in addition to as a CRM

ago





# Hubspot : Chat Bubble View



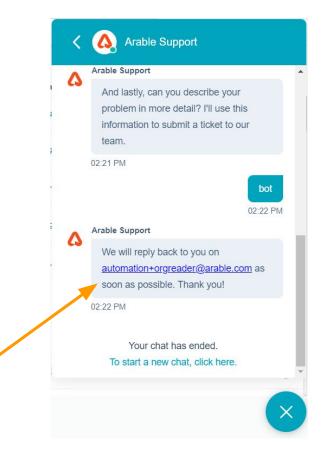
### **Introduction:**

Hubspot chat will allow user to enter the query and based on that query it will provide knowledge based search.

User can close the chat by clicking on "X" button.



# Hubspot : View



### **Overview:**

Hubspot chat bubble will help in automatic creation ticket.







# **DISTRIBUTOR: SETTINGS**

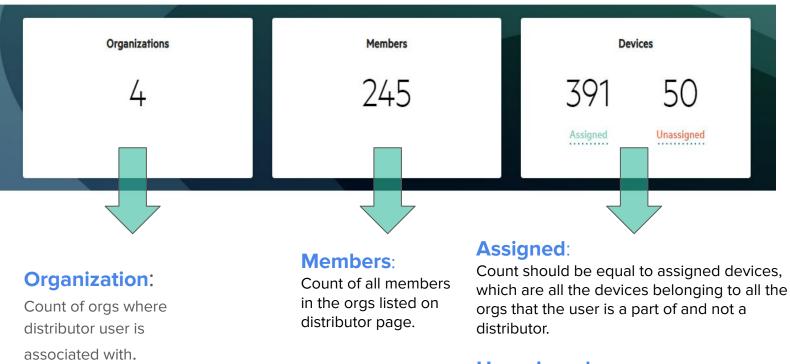


You can navigate to Distributor page by clicking on **Distributor icon** under Settings as a Distribution Channel Partner.



# **DISTRIBUTOR PAGE**





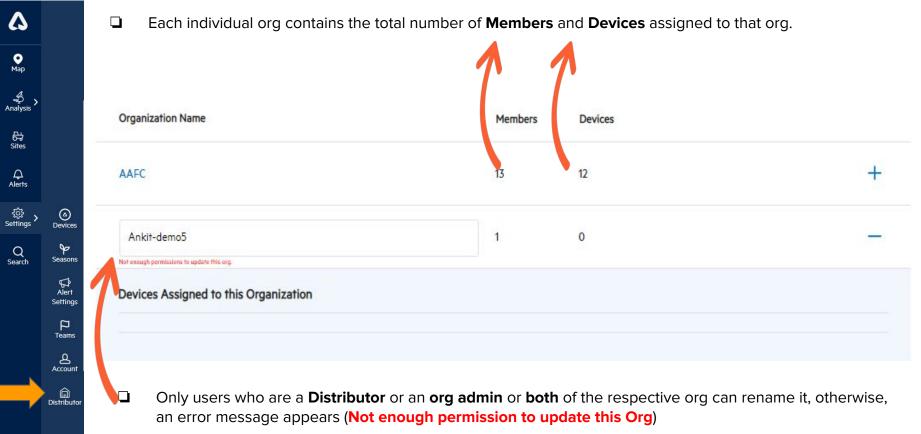
# Unassigned:

Count should be displayed, and it should be equal to the total number of devices that really are part of the distributor.





## **Distributor- Organization Summary**





### **Distributor - Assigned Devices**

۵		
• Map		
Analysis >		To do
다 Sites		lf y fro
ے Alerts		
Settings >	) Devices	
Q Search	<b>♀</b> Seasons	
	Alert Settings	ſ
	P Teams	L
	Account	
	Distributor	

#### **Assigned Devices**

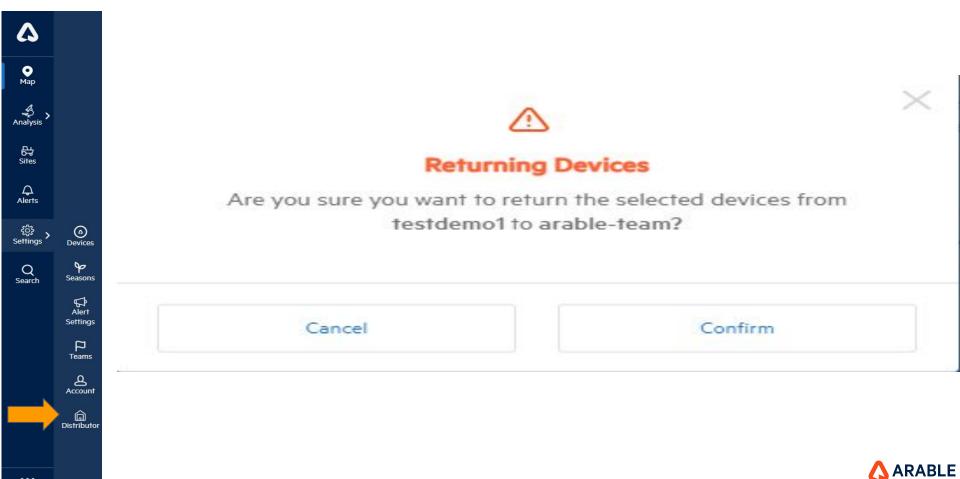
To view the devices associated to a specific organization, please select the organization from the "Source" dropdown menu.

If you wish to move any devices from one organization to another, please select the devices you wish to move from the source organization, then select an organization from "Destination" the drop-down, and press Return.

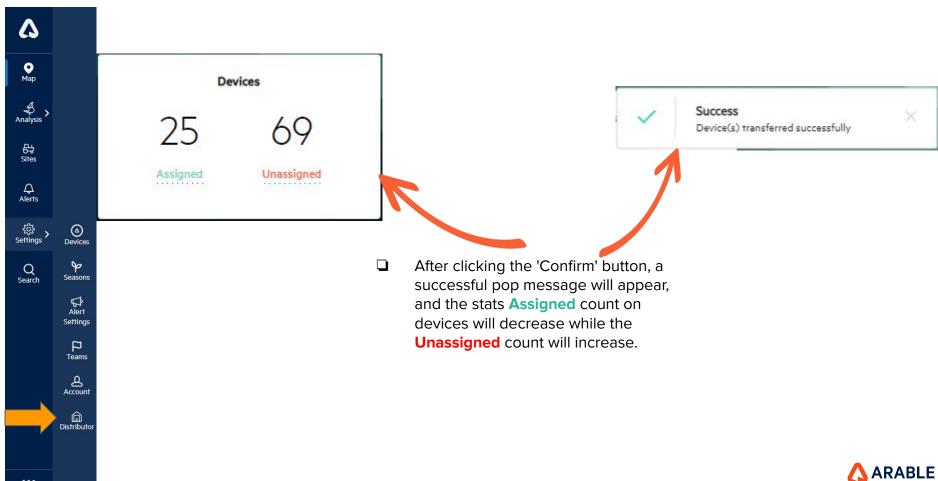
23 - 2320 - 11 LB		100 C		
testdemo1	$\sim$	arable-team	$\sim$	
				_
0006687 🗸				
006687 🗸				
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COO6687 ✓		Retu	urn	1



## **Distributor - Confirmation Pop-Up**



#### **Distributor Device Stats**



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## Distributor - Assigned Devices - Search Devices Functionality

- The message will be shown for minimum length required to search device.
- Should be able to search the devices by entering valid device id's in the search box (minimum of 3 characters are required) and pressing enter key.
- Search option should be case sensitive
- Should be able to search the devices using only one device Id at a time.
- Based on the organization selected and search input, the devices list should display.
- The devices which are selected previously should retain selection after the device search.
- "No devices found" message will be shown if searched device is not present in that org.

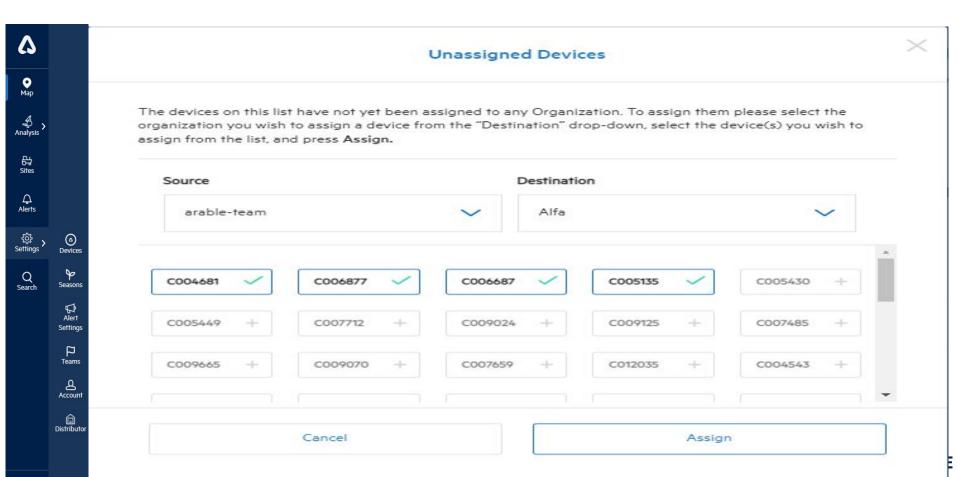
	Assigned	Devices		Assigned Devices					
o view the devices associated to a sp lown menu.	ecific organization	, please select the organization from t	the "Source" drop-	To view the devices associ down menu.	ated to a specific organization	on, please select the organization from t	the "Source" drop-		
f you wish to move any devices from c rom the <b>source organization</b> , then sel						to another, please select the devices yo ion from "Destination" the drop-down, a			
Cource		Destination		Source	Destination				
StagQA	$\sim$	Select distributor	~	StagQA	$\sim$	Select distributor	$\sim$		
B301203				3019	×				
B301203 +					No devia	ices found			
Cancel		return		C	ancel	return			

Assi	igned Devices	×
To view the devices associated to a specific organi down menu.	ization, please select the organization from the "Source" drop-	
	ation to another, please select the devices you wish to move nization from "Destination" the drop-down, and press <b>Return</b> .	
Source	Destination	
StagQA 🗸	Select distributor	1
Search Devices		
Minimum length of search field is 3 characters		
T300019 + B301203 + E	3301065 +	
Cancel	return	

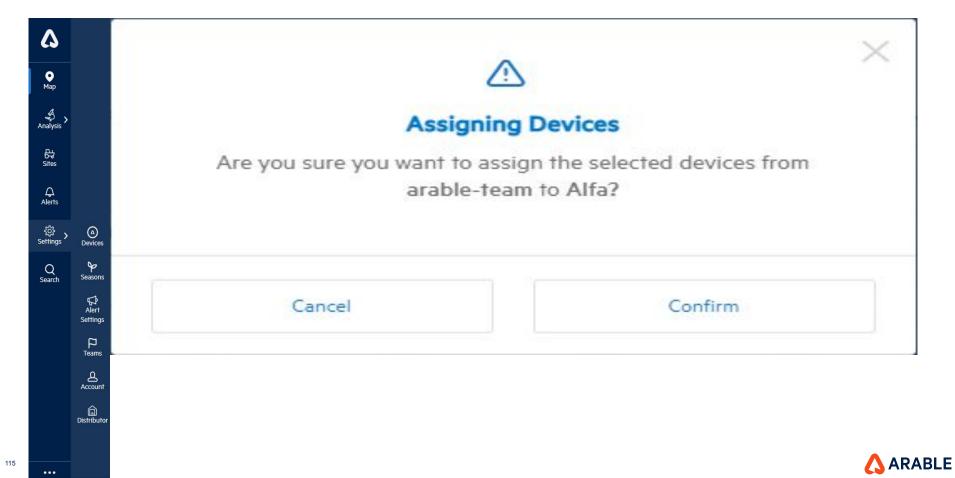




## **Distributor - Unassigned Devices**



## **Confirmation Pop-up**



### **Distributor Device Stats**





## Note:

After clicking the 'Confirm' button, a successful pop message will appear, and the stat assigned count on devices will increase while the unassigned count will decrease.



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د Settings

> Q Search

(a) Devices

P

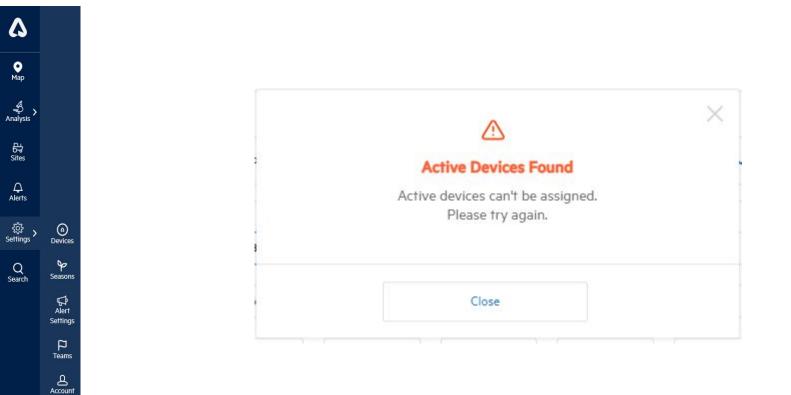
Seasons

∯ Alert

Settings

Teams Account

## **Distributor - Active Device Pop-up**





Distributor

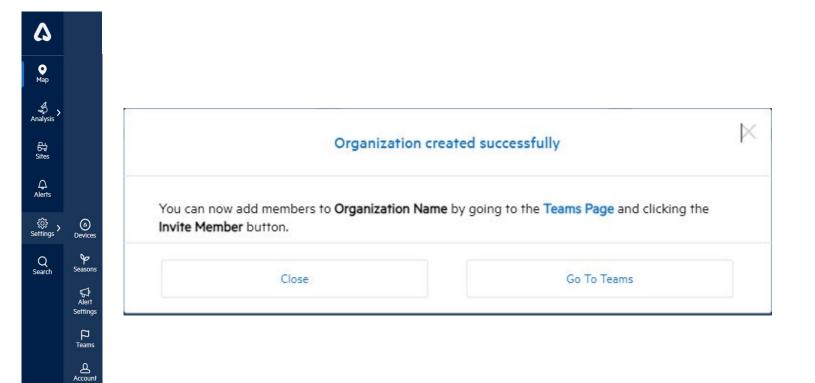


## **Distributor - Create New Organization**

۵			Create New O	rganization	$\times$
<b>О</b> Мар		Organization Name			
Analysis >		Guru			$\checkmark$
다. Sites		Source			
ے Alerts		arable-team			~
දිරි Settings >	(a) Devices	Assign Devices			*
Q Search	Seasons	C004681 🗸 C00687	77 + C009665	+ C005430 +	C007712 +
	Alert Settings	C009024 + C00513	5 + C009070	+ C005449 +	C012035 +
		C009125 + C00748	85 + C007659	+ C004543 +	C003359 +
	Account				· · · · ·
	.or				
		Cancel		Conf	ìrm
•••					



## Successful Message





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Distributor



## Distributor - Unassigned Devices - Search Devices Functionality

Unassigned Devices

The devices on this list have not yet been assigned to any Organization. To assign them please select the

assign from the list, and press Assign.

Source

organization you wish to assign a device from the "Destination" drop-down, select the device(s) you wish to

Destination

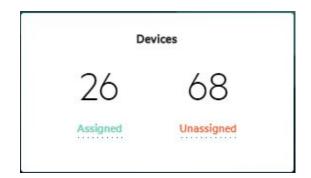
- The message will be shown for minimum length required to search device.
- Should be able to search the devices by entering valid device id's in the search box (minimum of 3 characters are required) and pressing enter key.
- Search option should be case sensitive
- Should be able to search the devices using only one device Id at a time.
- Based on the organization selected and search input, the devices list should display.
- The devices which are selected previously should retain selection after the device search.
- "No devices found" message will be shown if searched device is not present in that org.

×	Unassigned Devices	Select organization
Unassigned Devices The devices on this list have not yet been assigned to any Organization. To assign them please select the organization you wish to assign a device from the "Destination" drop-down, select the device(s) you wish to assign from the list, and press Assign.	The devices on this list have not yet been assigned to any Organization. To assign them please select the organization you wish to assign a device from the "Destination" drop-down, select the device(s) you wish to assign from the list, and press <b>Assign</b> .	Search Devices Minimum length of search field is 3 characters.
Source Destination	Source Destination	T30007         +         C0036/9         +         T300016         +         C003830         +
arable-team V Select organization V	arable-team V Select organization V	C006558 + T300018 + C011841 + C003106 + B301216 +
C003619 ×	C002146 ×	C013488         +         C002752         +         B301071         +         C006309         +
C003579 +		
	No devices found	Cancel Assign
Cancel Assign	Cancel Assign	
120		



### **Devices Stats**





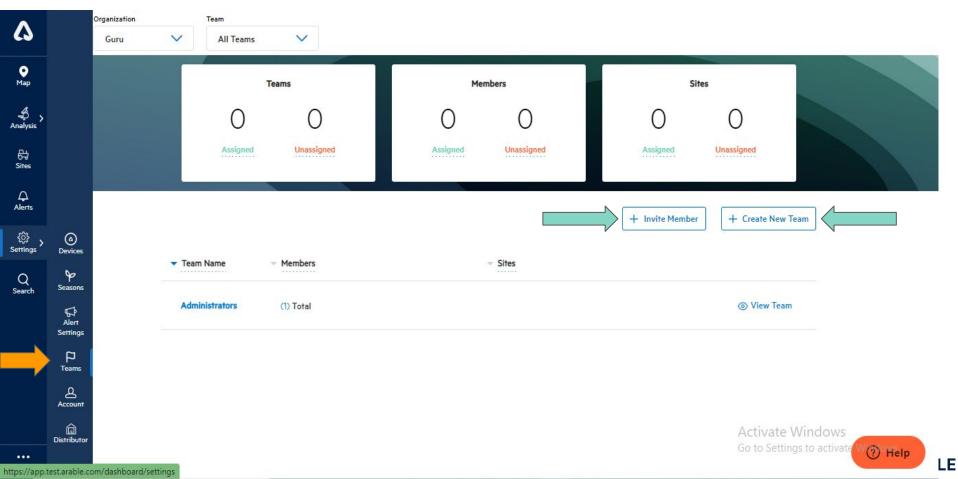
# Note:

- After clicking the 'Confirm' button, a successful pop message will appear and the stast **Assigned** count on devices will increase while the **Unassigned** count will decrease.
- Also the page will be navigated to the Team page after clicking 'Go To Teams'.





## **Distributor - Teams Page**



## **Distributor - Teams Page\_Invite Member**

۵		Organization	Team	Invite Mer	mber to Organization			
			All Teams	New	Current			
● Map			Teams	First Name	Last Name	Sit	les	
Analysis			0	Member first name	Member last name	0	0	
다. Sites			Assigned	Email Address		Assigned		
ے Alerts				Member email		- Invite Measler	+ Create New	Team
کې Settings	(a) Devices		Team Name 🛛 👻 Men	Select Role	$\sim$	( minurialities		
Q Search	∳ Seasons			Select Team(s)				
	G Alert Settings		Administrators (1) T	Select Team(s)	∼ Add			m 
	P Teams			Teams & Roles				
	Account				information, assign a role and select a op down above and click "add".			
	Distributor							Windows ngs to activate W@oHelp
https://app.	test.arable.co	om/dashboard/settings		Cancel	Confirm			Help



## **Distributor - Teams Page\_Create New Team**

^		Organization	Team						
۵			All Teams						
● Map				Teams	Create Nev	v Team	×	es	
Analysis			0		Team Name		0	0	
다 Sites				Un	Type the team's name		Assigned		
ے Alerts					Add or Remove Members		- Invite Member	+ Create New	Feam
ر Settings	(a) Devices		<ul> <li>Team Name</li> </ul>	- Memb	Select Team Members Add or Remove Sites	~			
Q Search	Seasons		Administrators	(1) Tot	Select Sites	~			
	∯ Alert Settings			(1) (0)	Add or Remove Devices				· 
	P Teams				Select Device or Locations	~			
	Q Account				Cancel	Confirm			
	Distributor								Windows
2.000	test arable c	om/dashboard/settings							BI

