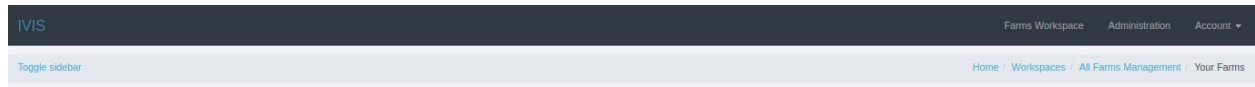


Users and Admin Guides: Agriculture Farms Dashboard WAZIFARM

1. Roles	3
2. Entities	4
3. Users Power	6
3.1. Global admin	7
Creating a namespace	7
Creating a user	8
Sharing a namespace to a user	8
Sensors Management	9
Creating event types	12
Creating crops	13
Crop seasons	13
Farm Management	14
3.2. Application admin	17
Creating a namespace	17
Creating a user	18
Sharing a namespace to a user	19
Sensors Management	20
Creating event types	23
Creating crops	23
Crop seasons	24
Farm Management	25
3.3. Advisor	28
Creating event types	28
Creating crops	28
Crop seasons	29
Farm Management	30
commendations	32
Recommendations	32
Recommendation Management	32
Event Management	33
3.4. Farmer	34
Event types	34

Crops	34
Crop seasons	35
Farm Management	35
Event Management	36
4. Farms Workspace	37
Advisor	38
Farm View	38
Events	39
Recommendations	39
Farms Schedule and Timeline	40
Farms Crop Seasons	40
Farmer	41

This document provides user manual and guides for users of WAZIFARM application. This application provides administration and management of application entities through Administration workspace (top and middle menu link in the following Figure), and a Farms Workspace (top and first menu link in the following Figure) for presentation of various information about farms such as farm view, farm events, farm recommendations, farm schedules (combination of events, and recommendations), farm map, farm crop seasons, etc. In the first sections of this document, we describe administration of entities, while in the sections after, we explain about Farms workspace.



In WAZIFARM, we have different roles that are already configured and defined by application. In this document, we describe how different roles can use this application. For that, in the first section, we describe different four roles in WAZIFARM application. In Section 2, we define different entities of WAZIFARM application. Section 3 in more details explain about power of different roles.

Based on your role, you may refer to the parts of this guide that is related to you. For example, in Section 3 that is about Users Power, you may refer to the section that is related to your role. You may read all parts of Section 2 that is about WAZIFARM entities.

You can access dashboard via <https://watersense.wazifarm.com>. If you face some warning issues, you have to ignore and trust and accept certificate warning.

1. Roles

In WAZIFARM application, whenever you see a **Role** field, you should see these four roles as in the following Figure.

Name	Description
Admin	All admin permissions
Advisor	Advisor permissions
Farmer	Farmer permissions
Master	All permissions

Currently, WAZIFARM dashboard has been configured with the following four roles:

- Master (technical and global admin): this is the technical and global admin of this application. This role can manage all administrative application entities such as sensors, users, namespaces, workspaces, and templates. Based on the need he might have some farm-specific power, e.g. to create a Crop, an Event Type, etc. We learn more about all power of this user in Section 3.
- Admin (application admin): this is the application admin of this farm application. This role might not be able to manage all entities such as users, namespaces, workspaces. In the test deployment instance, this user type has several of these management roles also. Based on the need he might have some farm application-specific power, e.g. to create a Crop, an Event Type, a Farm etc. We learn more about all power of this user in Section 3. Each application admin user can manage the administrative domain assigned to him through the concept of namespace such as managing farms in his namespace, managing different users in his namespace, etc.
- Farmer: this role will be assigned to all farmer. A farmer has almost no admin power except in creating events, and farms. He is limited to the farms shared with him, and can create events, see events for his farms, etc. We learn more about all power of this user in Section 3.
- Advisor: this role will be assigned to all advisors of farmers. An advisor has almost no admin power. He is limited to the farms shared with him, and can create recommendations, see recommendations and events for his farms, etc. We learn more about all power of this user in Section 3.

More specifically, in the next sections we detail the power of each user type, what they can do, and what they cannot do.

2. Entities

In this section, we go over WAZIFARM entities. Some entities are more relevant for admins (global, and application) to manage, while some entities are more relevant for non-admin users, i.e. farmers, and advisor, to manage. In the Administration section of application, a user can manage or see all WAZIFARM entities that he has permissions to do so. The following Figure illustrates the view of a global admin (master role); other user types should have a different view based on their permissions.

IVIS

Farms WorkspaceAdministrationAccount

Toggle sidebar

Home / WaterSense Administration / Farms

Farms

Crop Seasons

Crops

Event Types

Sensor Types

Sensors

Users

Namespaces

Workspaces

Templates

Farms

Show 10 entries

Search:

+ Create Farm

Id	Name	Description	Address	Created	Namespace	Actions
1	Sarsabz		Lahore	2 months ago	Pakistan	Edit Delete
4	Khalil	Khalil	Okara	a month ago	Pakistan	Edit Delete
5	Mitchells		Renala	a month ago	Pakistan	Edit Delete
6	Mustapha		Sheikhupura	a month ago	Pakistan	Edit Delete
7	Test			a month ago	Root	Edit Delete
8	NARC_Farm			17 days ago	Pakistan	Edit Delete

Showing 1 to 6 of 6 entries

Previous

1

Next

In order to have consistent terminology throughout this guide, we refer to these things (Farms, Crop Seasons, Crops, etc.) as entities.

In WAZIFARM dashboard application, we have the following application-specific entities for WAZIFARM purposes:

- Crop:** With this entity, users can create new crops to be used throughout the application. Farmers can only view crops. Advisors can create, and view crops. Global and application admins can create, edit and view crops. Farmers can only see crops. We let advisors to create new crops if a crop they want to work with does not exist. And we let only admin to edit crops. This way if a user defines a wrong crop, an admin can edit or delete that crop.
- Event Type:** In this application, farmers and advisors need to create events that is happening in their farms. With this entity, users can create new event types to be used throughout the application. Farmers can only view event types. Advisors can create, and view event types. Global and application admins can create, edit and view event types. Farmers can only see Event Types. We let advisors to create new Event Types if an Event Type they want to work with does not exist. And we let only admin to edit Event Types. This way if a user defines a wrong Event Types, an admin can edit or delete that Event Type.
- Sensor Type:** Admins need to define and assign a sensor type to a sensor. In WAZIFARM project, deployment teams are deploying different soil moisture sensors (e.g. capacitive, analogue) in farms. For each sensor we need to assign its type; with that, dashboard application can show the corresponding moisture percent based on sensors reading values in graphs. Global and application admins can create, edit and view Sensor Types. Farmers can only see Sensor Types. We let advisors to create new Sensor Types if a Sensor Type they want to work with does not exist. And we let only admin to edit Sensor Types. This way if a user defines a wrong Sensor Types, an admin can edit or delete that Sensor Type. Thus, a sensor type is managed by admins.

- **Event:** Farmers and advisors can create events that is happening in their farms. Therefore, an event is related to a specific farm, and a farmer (or an advisor). Farmers can create, edit, and view their own Events. Advisors can create, edit their own Events, and can view Events related to their farms, e.g. created by other farmers of their farms; thus, advisors will see all events for the farms that has been shared with them. Global and application admins cannot create/edit or view any events.
- **Recommendations:** A recommendation is similar to an event, but only an advisor can create a recommendation for a farmer of a farm to provide an advice to the farmer. Farmers can only view recommendations that target them. Advisors can view, create, edit their own recommendations. Global and application admins cannot create/edit or view any recommendations.
- **Farms:** Users can create farms. Farmers can create, and edit farms that they have created themselves, and view farms. They can see the farms that they created or have been shared with them. Farmers cannot share a farm with other users. They cannot also delete or edit the farms. Advisors can create/edit, and view farms that they have created themselves or shared with them. Advisors can see the farms that they created or have been shared with them. They can also delete or edit the farms that have been shared with them. Application admins can do everything on farms on the namespaces they have permission on, or on the farms that have shared with them. They can share farms with other users. Global admin can do anything.
- **Crop Seasons:** A crop season entity is related to a specific farm, and a crop. Farmers, and advisors can create/edit/view crop seasons for the farms that have shared with them. Instead, application admins can create/edit/view crop seasons for the farms within their namespaces (namespaces that are shared with them). Global admin can view all crop seasons at all namespaces.

3. Users Power

In this section, we go over all user roles, and provide a detailed description of how they can use WAZIFARM application according to their roles by giving an example. We start by global admin (master role), and explain what a global admin needs to do in order to manage WAZIFARM application, and engage other user roles such as application admins, farmers, and advisors.

In this example, we consider the definition of a new administrative domain named Senegal to engage WAZIFARM users of Senegal. We provide steps for the case of Senegal, detailing what each role should do starting from global admin, then application admin.

Before we start, all users are invited to go into **Account:Profile** section in order to update their profile information, including password. In the following Figure, global admin would like to change his Full Name into “*Mehdi Sheikhalishahi*”, and Email address into mehdi.sheikhalishahi@innotec21.de. With that, we assume the global and technical admin for WAZIFARM application is “Mehdi Sheikhalishahi” from Innotec21 GmbH company.

IVIS

Farms WorkspaceAdministrationAccount

Profile

Logout

Account

General Settings

Full Name

Administrator

Email

admin@example.org

This address is used for account recovery in case you loose your password

Cell

Address

Password Change

You only need to fill out this form if you want to change your current password

Current Password

New Password

Confirm Password

Update

3.1. Global admin

Creating a namespace

In order to support a new administrative domain, global admin needs to create a new namespace for that domain, if that does not exist in the system. For that, he needs to go into **Administration** section, and click on the **Namespace**, after that click on the “Create Namespace”. Here, global admin needs to give a name, and a description to this namespace, and specify its Parent Namespace (e.g. Root). With that, global admin creates a namespace for Senegal administrative domain.

IVIS

Farms WorkspaceAdministrationAccount

Toggle sidebar

Home / WaterSense Administration / Namespaces / Create

Farms

Crop Seasons

Crops

Event Types

Sensor Types

Sensors

Users

Namespaces

Workspaces

Templates

Create Namespace

Name

Description

Parent Namespace

Root

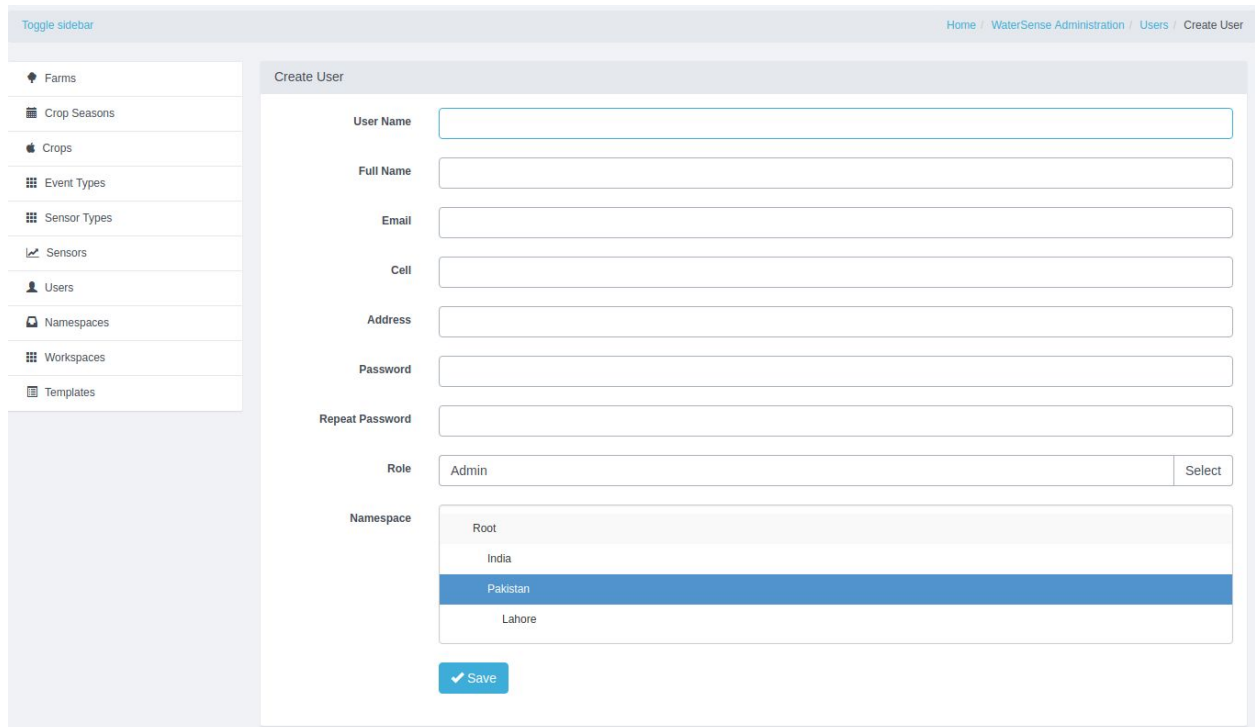
India

Pakistan

Save

Creating a user

Global admin then needs to create a user with the role of application admin for Senegal namespace, similar to the following Figure (**Administration:Users**: Create User). Here, global admin enters profile information, with a default password, and selects Senegal as default Namespace of application admin for Senegal. We assume “*Babacar DIOP*” as application admin of Senegal.



The screenshot shows the 'Create User' form in the WaterSense Administration dashboard. The form is located on the right side of the page, with a sidebar on the left containing navigation links: Farms, Crop Seasons, Crops, Event Types, Sensor Types, Sensors, Users, Namespaces, Workspaces, and Templates. The form fields include: User Name, Full Name, Email, Cell, Address, Password, Repeat Password, Role (set to Admin), and Namespace (a dropdown menu with options: Root, India, Pakistan, and Lahore). The 'Save' button is at the bottom of the form.

Field	Value
User Name	
Full Name	
Email	
Cell	
Address	
Password	
Repeat Password	
Role	Admin
Namespace	Pakistan

Sharing a namespace to a user

After this step, global admin needs to share Senegal namespace with application admin of Senegal, similar to the following Figure (**Administration:Namespaces**: Clicking on Icon Share of Senegal namespace). Here, global admin should click on icon **Share** of Senegal namespace. ***In this version of dashboard, this step is very important to be done immediately after user creation, otherwise it can block new user from getting access to dashboard.***

Namespaces		
		+ Create Namespace
Name	Description	
Root	Root namespace	✎ ➔
Ethiopia		✎ ➔
Ghana		✎ ➔
India		✎ ➔
Pakistan		✎ ➔
Lahore		✎ ➔
Senegal		✎ ➔

With that, there will appear a similar page as the following Figure, and would need to select “*Babacar DIOP*” (in the User field) with the role of Admin (in the Role field) in order to share Senegal namespace to application admin of Senegal, that is “*Babacar DIOP*”.

Share
Edit
Share

Add User

User
Babacar DIOP
Select

Role
Admin
Select

Share

Existing Users

Show 10 entries
Search:

Username	Name	Role	Action
cdupont	Corentin Dupont	Admin	✕
cheikh	Cheikh Tidiane DIOP	Farmer	✕
senegaladmin	Mehdi Sheikhalishahi	Admin	✕

Showing 1 to 3 of 3 entries
Previous
1
Next

Sensors Management

Global admin can also manage sensors (**Administration:Sensors**). In this page, global admin can see all sensors. Admins do not need to create sensors manually, since they will be created automatically by WAZIFARM data collection service. Here, admins or deployment team need to define or edit some parameters of sensors, such as Namespace, Update Period, Latitude, Longitude. Update Period specifies what is the frequency of data collection for a sensor in minutes; this parameter will be used to determine if a sensor is Active or Inactive. Latitude, Longitude define GPS coordinates of a sensor.

Toggle sidebar
Home / WaterSense Administration / Signals

- Farms
- Crop Seasons
- Crops
- Event Types
- Sensor Types
- Sensors
- Users
- Namespaces
- Workspaces
- Templates

Signal Sets

Show 10 entries
Search:

Name	Last Update	Update Period (minute)	Created	Namespace	Latitude	Longitude	Status	
IT21_Sensor2	10 days ago		a month ago	Root			Inactive	Edit Add Delete
Khalil_Farm_Sensor0			a month ago	Pakistan			Inactive	Edit Add Delete
Khalil_Farm_Sensor4			a month ago	Pakistan			Inactive	Edit Add Delete
Khalil_Farm_Sensor5			a month ago	Pakistan			Inactive	Edit Add Delete
Mitchells_farm_Sensor10			a month ago	Pakistan			Inactive	Edit Add Delete
Mitchells_farm_Sensor2			a month ago	Pakistan			Inactive	Edit Add Delete
Mitchells_farm_Sensor6			a month ago	Pakistan			Inactive	Edit Add Delete
MUSTAPHA_FARM_Sensor4	2 hours ago		2 days ago	Root			Inactive	Edit Add Delete
MUSTAPHA_FARM_Sensor9	3 hours ago		2 days ago	Root			Inactive	Edit Add Delete
NARC_Farm_Sensor10	12 days ago		17 days ago	Pakistan			Inactive	Edit Add Delete

Showing 1 to 10 of 57 entries

Previous
1
2
3
4
5
6
Next

In order to edit a sensor parameters, admins need to click on the first icon (Edit) in the Actions column (last column), then they will be directed into the following page. Here, admins can edit sensor parameters. **We do not recommend to change Id, and Name of any sensor** as this will interfere with data service, and sensors will not receive any data after this update of name, and id. Here, admins need to change Namespace of this sensor to Senegal, since this sensor belongs to Senegal administrative domain. After these changes, admins need to click on **Save**.

Toggle sidebar
Home / WaterSense Administration / Signals / Signal Set "MUSTAPHA_FARM_Sensor4" / Edit

- Farms
- Crop Seasons
- Crops
- Event Types
- Sensor Types
- Sensors
- Users
- Namespaces
- Workspaces
- Templates

Edit Signal Set

Edit
Signals
Share

Id

MUSTAPHA_FARM_Sensor4

Name

MUSTAPHA_FARM_Sensor4

Update Period (minute)

15

Latitude

Longitude

Description

SensorDiscovery

HTML is allowed

Type

Values

Namespace

Root

India

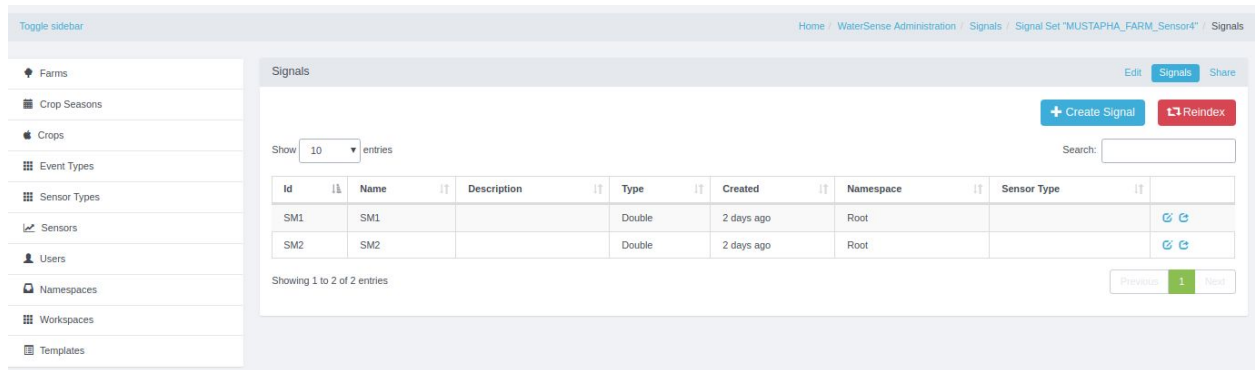
Pakistan

Lahore

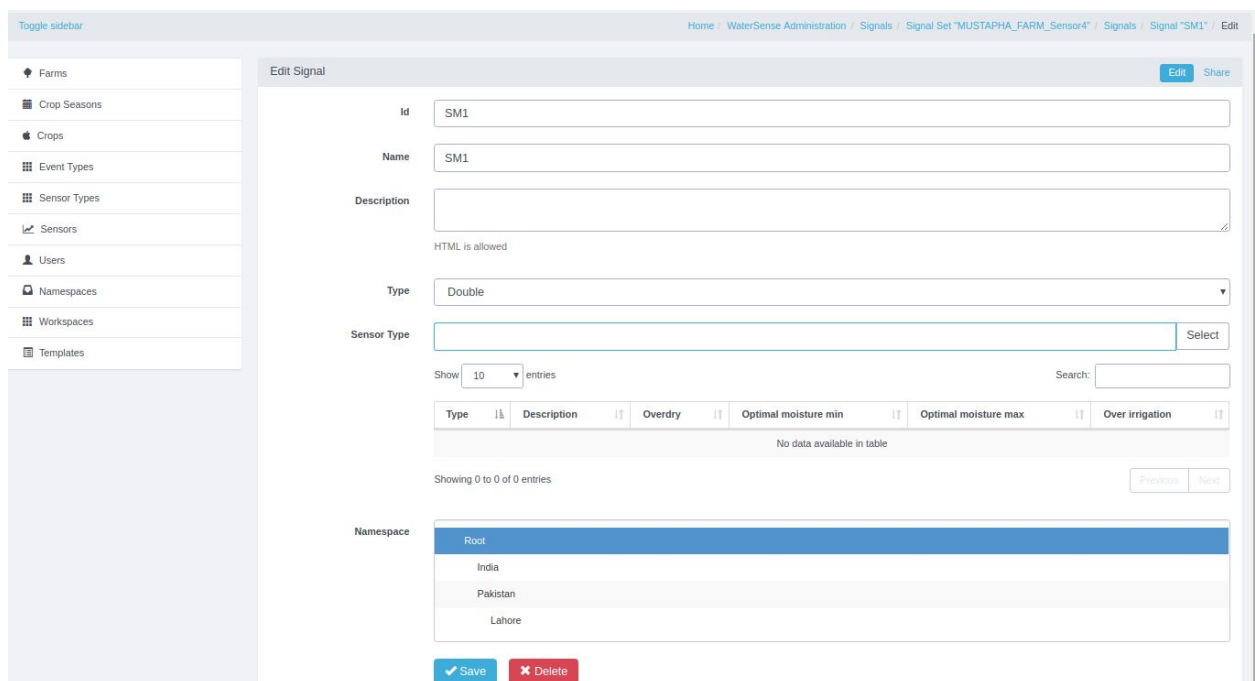
Save

Delete

Then, admins need to edit individual moisture sensors (Signals) of a sensor, by clicking on **Signals** tab after Edit tab. Clicking on this tab will lead you into the following page.



Here, you can click on the Edit icon to edit moisture sensor parameters, with that you will lead into the following page.



We do not recommend to change Id, and Name of any signal as this will interfere with data service, and sensors will not receive any data after this update of name, and id. Here, admins need to change Namespace of this signal to Senegal, since this signal belongs to Senegal administrative domain. In order to specify Sensor Type of this signal, you need to click on Select button of Sensor Type field, and select relevant entry for sensor type. After these changes, admins need to click on **Save**.

If a sensor type of a signal has not been defined yet, global admin would need to go into page (**Administration:Sensor Types**) by clicking on Sensor Types. In this page, global admin can see all sensor types, and click on (**Create Sensor Types**) button in order to create a new one, similar to the following Figure.

Create Sensor Type

Type

medium cost sensor

Description

medium cost sensor with three probes(needles)

HTML is allowed

Over dry

0

Optimal moisture minimum

100

Optimal moisture maximum

400

Over irrigation

570

Save

Here, we define a medium cost sensor (with three probes or needles); for this soil moisture sensor type 0 means full dry (Over dry in the form) and 570 means full wet (Over irrigation in the form).

Creating event types

Similarly, global admin can see the list of already defined event types (**Administration:Event Types**) by clicking on Event Types.

Event Types

+ Create Event Type

Show 10 entries

Search:

Name	Description	Unit	Actions
Biological Yield	Biological Yield	Tons	
Emmamactin	Emmamactin used	ml	
Granular Pesticides	Granular Pesticides used	kg	
Herbicides	Herbicides used	ml	
Irrigation		m3	
Nitrogen	Nitrogen applied	kg	
Number of leaves	Number of leaves	plant	
Number of plants	Number of plants	sq m	
Phosphorous	Phosphorous applied	kg	
Plant Height	Plant Height	ft	

Showing 1 to 10 of 15 entries

Previous

1

2

Next

In this page, global admin can see all event types, and click on (**Create Event Types**) button in order to create a new one, similar to the following Figure.

Create Event Type

Name

Description

HTML is allowed

Unit

✓ Save

Creating crops

Similarly, global admin can see the list of already defined crops (**Administration:Crops**) by clicking on Crops.

Crops

Show

10

entries

Search:

+ Create Crop

Name	Description	Root	Max Height	Actions
Apple	Apple	100	700	✎
Mais	Mais	100	300	✎

Showing 1 to 2 of 2 entries

Previous

1

Next

In this page, global admin can see all crops, and click on (**Create Crop**) button in order to create a new one, similar to the following Figure.

Create Crop

Name

Description

HTML is allowed

Root

Max Height

✓ Save

Crop seasons

Similarly, global admin can see the list of already defined crop seasons (**Administration:Crop Seasons**) by clicking on Crop Seasons. Here, global admin cannot create any crop season since he does not have this permission to do so.

Crop Seasons							
Show 10 entries		Search:					
Name	Description	Farm	Crop	Start	End	Namespace	Actions
Test		Sarsabz	Mais	5 months ago	Not defined yet	Pakistan	
Winter Crop		Sarsabz	Mais	5 months ago	24 days ago	Pakistan	
Winter Crops		Sarsabz	Apple	4 months ago	Not defined yet	Pakistan	
Showing 1 to 3 of 3 entries						Previous	1 Next

Farm Management

Global admin can see the list of all created farms of all users (**Administration:Farms**) by clicking on Farms. Here, global admin can also create and edit farms and share them with other users.

In general, global admin has "view", "edit", "delete", and "share" capabilities on the farms within all namespaces, basically everything.

Farms

Show

10

▼

entries

Search:

<div><div></div><div></div></div> <div></div>	<div><div></div><div></div></div> <div></div>	<div><div></div><div></div></div> <div></div>	<div><div></div><div></div></div> <div></div>	<div><div></div><div></div></div> <div></div>	<div><div></div><div></div></div> <div></div>	<div><div></div><div></div></div> <div></div>	<div><div></div><div></div></div> <div></div>
1	Sarsabz		Lahore	2 months ago	Pakistan	<div></div> <div></div>	
4	Khalil	Khalil	Okara	a month ago	Pakistan	<div></div> <div></div>	
5	Mitchells		Renala	a month ago	Pakistan	<div></div> <div></div>	
6	Mustapha		Sheikhupura	a month ago	Pakistan	<div></div> <div></div>	
7	Test			a month ago	Root	<div></div> <div></div>	
8	NARC_Farm			20 days ago	Pakistan	<div></div> <div></div>	

Showing 1 to 6 of 6 entries

Previous

1

Next

In order to create a new farm, global admin needs to click on (**Create Farm**), similar to the following Figure.

Create Farm

Name

Description

HTML is allowed

Address

HTML is allowed

Namespace

Root

India

Pakistan

Lahore

✓ Save

After farm creation, global admin needs to edit a farm by clicking on Edit button in actions column, and add farm's sensors to the farm by clicking on Sensors tab. Here, he needs to click on Select button, then select the sensor from the list, and click on Add button in order to add the sensor to the farm, similar to the following Figures.

Sensor

EditSensorsShare

Add Sensor

Sensors

Select

✓ Add

Existing Sensors

Show 10 entries

Search:

Id	Name	Description	Created	Namespace	Cid	Action
54	NARC_Farm_Sensor10	SensorDiscovery	20 days ago	Pakistan	NARC_Farm_Sensor10	✕
55	NARC_Farm_Sensor12	SensorDiscovery	16 days ago	Root	NARC_Farm_Sensor12	✕

Showing 1 to 2 of 2 entries

Previous1Next

Sensor

Edit
Sensors
Share

Add Sensor

Sensors

NARC_Farm_Sensor2

Select

Show

10

entries

Search:

Id	Name	Description	Created	Namespace	Cid
53	Khalil_Farm_Sensor0	SensorDiscovery	a month ago	Pakistan	Khalil_Farm_Sensor0
56	NARC_Farm_Sensor2	SensorDiscovery	7 days ago	Pakistan	NARC_Farm_Sensor2
57	WS_MUSTAPHA_FARM_Sensor4	SensorDiscovery	5 days ago	Root	WS_MUSTAPHA_FARM_Sensor4
58	MUSTAPHA_FARM_Sensor4	SensorDiscovery	5 days ago	Pakistan	MUSTAPHA_FARM_Sensor4
59	MUSTAPHA_FARM_Sensor9	SensorDiscovery	5 days ago	Pakistan	MUSTAPHA_FARM_Sensor9

Showing 51 to 55 of 55 entries

1 entries selected. Deselect all.

Previous

1

2

3

4

5

6

Next

✓ Add

Existing Sensors

Show

10

entries

Search:

Id	Name	Description	Created	Namespace	Cid	Action
54	NARC_Farm_Sensor10	SensorDiscovery	20 days ago	Pakistan	NARC_Farm_Sensor10	✕
55	NARC_Farm_Sensor12	SensorDiscovery	16 days ago	Root	NARC_Farm_Sensor12	✕

Showing 1 to 2 of 2 entries

Previous

1

Next

Global admin can share farms with other users (with the role of farmers, and advisors) by clicking on Share button (the last one) in Actions column. In this page, he need to select the user, and its role and click on the **Share** button in order to share the farm with the selected user. Global admin can also delete a farm by going to Edit page, and clicking on Delete button.

Edit Farm

Edit
Sensors
Share

Name

NARC_Farm

Description

Address

Namespace

Root

India

Pakistan

Lahore

✓ Save

✕ Delete

Share
Edit
Sensors
Share

Add User

User
Select

Show 10 entries
Search:

#	Username	Full Name
1	admin	Mehdi Sheikhalishahi
2	pakistanadmin	Mehboob Elahi
3	advisorpakistan	Advisor Pakistan
4	farmerpakistan	Sohail
6	mustapha	mustapha
7	khalil	khalil
8	mitchells	Mitchells

Showing 1 to 7 of 7 entries
Previous
1
Next

Role
Select

Show 10 entries
Search:

Name	Description
Admin	All admin permissions at farm level
Advisor	Advisor permissions
Farmer	Farmer permissions
Master	All permissions

Showing 1 to 4 of 4 entries
Previous
1
Next

Share

3.2. Application admin

Creating a namespace

In order to support a new administrative domain, admin needs to create a new namespace for that domain, if that does not exist in the system. For that, he needs to go into **Administration** section, and click on the **Namespace**, after that click on the “Create Namespace”. Here, admin needs to give a name, and a description to this namespace, and specify its Parent Namespace (e.g. Senegal). With that, admin creates a namespace for Lahore administrative domain.

IVIS

Farms WorkspaceAdministrationAccount

Toggle sidebarHome / WaterSense Administration / Namespaces / Create

Farms

Crop Seasons

Crops

Event Types

Sensor Types

Sensors

Users

Namespaces

Workspaces

Templates

Create Namespace

Name

Description

Parent Namespace

Root

India

Pakistan

Save

Creating a user

Admin then can create users with the roles of farmers, or advisors, similar to the following Figure (**Administration:Users**: Create User). Here, admin enters profile information of user (e.g. a farmer named Abdul Ghafoor Mangrio), with a default password, and selects Senegal as default Namespace. For example, admin can create Abdul Ghafoor Mangrio that is a farmer, and share Senegal namespace with him.

Toggle sidebarHome / WaterSense Administration / Users / Create User

Farms

Crop Seasons

Crops

Event Types

Sensor Types

Sensors

Users

Namespaces

Workspaces

Templates

Create User

User Name

Full Name

Email

Cell

Address

Password

Repeat Password

Role

Admin

Select

Namespace

Root

India

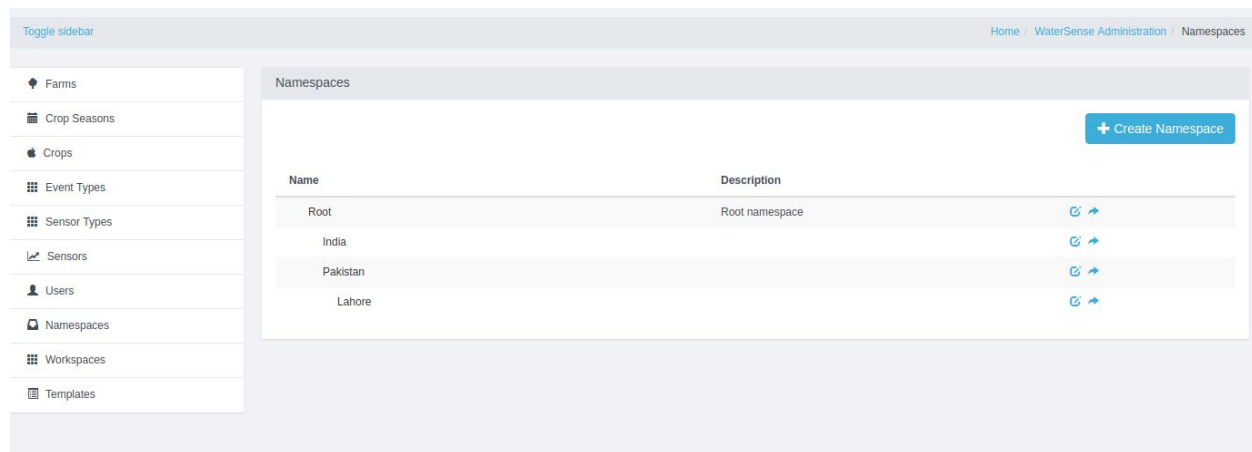
Pakistan

Lahore

Save

Sharing a namespace to a user

After this step, admin needs to share a namespace (e.g., Senegal) with users, similar to the following Figure (**Administration:Namespaces**: Clicking on Icon Share of Senegal namespace). ***In this version of dashboard, this step is very important to be done immediately after user creation, otherwise it can block new user from getting access to dashboard. If you have problems with this task, you need to ask global admin (Mehdi Sheikhalishahi).***



With that, there will appear a similar page as the following Figure, and would need to select “Abdul Ghafoor Mangrio” (in the User field) with the role of Farmer (in the Role field) in order to share Senegal namespace to this farmer.

Toggle sidebar
Home / WaterSense Administration / Namespaces / Namespace "Pakistan" / Share

Farms
Crop Seasons
Crops
Event Types
Sensor Types
Sensors
Users
Namespaces
Workspaces
Templates

Share

Edit

Share

Add User

User

Mehboob Elahi

Select

Role

Admin

Select

Share

Existing Users

Show

10

entries

Search:

Username	Name	Role	Action
advisorpakistan	Advisor Pakistan	Advisor	
farmerpakistan	Sohail	Farmer	
khalil	khalil	Farmer	
mitchells	Mitchells	Farmer	
mustapha	mustapha	Farmer	
NARC	Abdul Ghafoor Mangrio	Farmer	

Sensors Management

Admin can also manage sensors of Senegal namespace (**Administration:Sensors**). In this page, admin can see all sensors of Senegal namespace. Admins do not need to create sensors manually, since they will be created automatically by WAZIFARM data collection service. Here, admins or deployment team need to define or edit some parameters of sensors, such as Namespace, Update Period, Latitude, Longitude. Update Period specifies what is the frequency of data collection for a sensor in minutes; this parameter will be used to determine if a sensor is Active or Inactive. Latitude, Longitude define GPS coordinates of a sensor.

Signal Sets

Show

10

entries

Search:

Create Signal Set

Name	Last Update	Update Period (minute)	Created	Namespace	Latitude	Longitude	Status	
WS_Mustafa_Farm_Sensor8			2 months ago	Pakistan			Inactive	
WS_Mustafa_Farm_Sensor9			2 months ago	Pakistan			Inactive	
WS_Mustapha_Sensor8			2 months ago	Pakistan			Inactive	
WS_Mustapha_Sensor9			2 months ago	Pakistan			Inactive	
WS_Okara_Farm_Sensor2			2 months ago	Pakistan			Inactive	
WS_Okara_Farm_Sensor4			2 months ago	Pakistan			Inactive	
WS_Okara_Farm_Sensor5			2 months ago	Pakistan			Inactive	
WS_Okara_Farm_Sensor8			2 months ago	Pakistan			Inactive	
WS_Okara_Farm_Sensor9			2 months ago	Pakistan			Inactive	
WS_SSF_Sensor9			2 months ago	Pakistan			Inactive	

Showing 31 to 40 of 40 entries

Previous
1
2
3
4
Next

In order to edit a sensor parameters, admins need to click on the first icon (Edit) in the Actions column (last column), then they will be directed into the following page. Here, admins can edit sensor parameters. ***We do not recommend to change Id, and Name of any sensor*** as this will interfere with data service, and sensors will not receive any data after this update of name, and id. Here, admins may need to change Namespace of this sensor to Senegal, since this sensor belongs to Senegal administrative domain. After these changes, admins need to click on **Save**.

The screenshot shows the 'Edit Signal Set' page. The breadcrumb trail is: Home / WaterSense Administration / Signals / Signal Set "MUSTAPHA_FARM_Sensor4" / Edit. The left sidebar contains a 'Toggle sidebar' button and a list of menu items: Farms, Crop Seasons, Crops, Event Types, Sensor Types, Sensors, Users, Namespaces, Workspaces, and Templates. The main content area is titled 'Edit Signal Set' and has tabs for 'Edit', 'Signals', and 'Share'. The form contains the following fields:

- Id:** MUSTAPHA_FARM_Sensor4
- Name:** MUSTAPHA_FARM_Sensor4
- Update Period (minute):** 15
- Latitude:** (empty field)
- Longitude:** (empty field)
- Description:** SensorDiscovery
- Type:** Values (dropdown menu)
- Namespace:** A list box showing 'Root', 'India', 'Pakistan', and 'Lahore'.

At the bottom of the form are two buttons: 'Save' (with a checkmark icon) and 'Delete' (with an 'X' icon).

Then, admins need to edit individual moisture sensors (Signals) of a sensor, by clicking on **Signals** tab after Edit tab. Clicking on this tab will lead you into the following page.

The screenshot shows the 'Signals' page. The breadcrumb trail is: Home / WaterSense Administration / Signals / Signal Set "MUSTAPHA_FARM_Sensor4" / Signals. The left sidebar is the same as in the previous screenshot. The main content area is titled 'Signals' and has tabs for 'Edit', 'Signals', and 'Share'. At the top right of the main area are buttons for '+ Create Signal' and 'Reindex'. Below these is a search bar and a 'Show 10 entries' dropdown. The table below shows the following data:

Id	Name	Description	Type	Created	Namespace	Sensor Type	
SM1	SM1		Double	2 days ago	Root		Edit Share
SM2	SM2		Double	2 days ago	Root		Edit Share

At the bottom of the table, it says 'Showing 1 to 2 of 2 entries'. There are 'Previous', '1', and 'Next' buttons for pagination.

Here, you can click on the Edit icon to edit moisture sensor parameters, with that you will lead into the following page.

Toggle sidebar
Home / WaterSense Administration / Signals / Signal Set "MUSTAPHA_FARM_Sensor4" / Signals / Signal "SM1" / Edit

Farms
Crop Seasons
Crops
Event Types
Sensor Types
Sensors
Users
Namespaces
Workspaces
Templates

Edit Signal
Edit Share

IdSM1

NameSM1

Description
HTML is allowed

TypeDouble

Sensor Type
Select

Show10 entries
Search:

Type	Description	Overdry	Optimal moisture min	Optimal moisture max	Over irrigation
No data available in table					

Showing 0 to 0 of 0 entries
PreviousNext

Namespace

Root
India
Pakistan
Lahore

SaveDelete

We do not recommend to change Id, and Name of any signal as this will interfere with data service, and sensors will not receive any data after this update of name, and id. Here, admins may need to change Namespace of this signal to Senegal, since this signal belongs to Senegal administrative domain. In order to specify Sensor Type of this signal, you need to click on Select button of Sensor Type field, and select relevant entry for sensor type. After these changes, admins need to click on **Save**.

If a sensor type of a signal has not been defined yet, admin would need to go into page (**Administration:Sensor Types**) by clicking on Sensor Types. In this page, admin can see all sensor types, and click on (**Create Sensor Types**) button in order to create a new one, similar to the following Figure.

Create Sensor Type

Type

medium cost sensor

Description

medium cost sensor with three probes(needles)

HTML is allowed

Over dry

0

Optimal moisture minimum

100

Optimal moisture maximum

400

Over irrigation

570

Save

Here, we define a medium cost sensor (with three probes or needles); for this soil moisture sensor type 0 means full dry (Over dry in the form) and 570 means full wet (Over irrigation in the form).

Creating event types

Similarly, admin can see the list of already defined event types (**Administration:Event Types**) by clicking on Event Types.

Event Types				
Show 10 entries				+ Create Event Type
Search:				
Name	Description	Unit	Actions	
Biological Yield	Biological Yield	Tons	✎	
Emmamacin	Emmamacin used	ml	✎	
Granular Pesticides	Granular Pesticides used	kg	✎	
Herbicides	Herbicides used	ml	✎	
Irrigation		m3	✎	
Nitrogen	Nitrogen applied	kg	✎	
Number of leaves	Number of leaves	plant	✎	
Number of plants	Number of plants	sq m	✎	
Phosphorous	Phosphorous applied	kg	✎	
Plant Height	Plant Height	ft	✎	
Showing 1 to 10 of 15 entries				Previous 1 2 Next

In this page, admin can see all event types, and click on (**Create Event Types**) button in order to create a new one, similar to the following Figure.

Create Event Type	
Name	<input type="text"/>
Description	<input type="text"/>
	HTML is allowed
Unit	<input type="text"/>
	✓ Save

Creating crops

Similarly, admin can see the list of already defined crops (**Administration:Crops**) by clicking on Crops.

Crops					
<div> <div>Show 10 entries</div> <div>Search:</div> </div>					<div>+ Create Crop</div>
Name	Description	Root	Max Height	Actions	
Apple	Apple	100	700		
Mais	Mais	100	300		
Showing 1 to 2 of 2 entries					<div> <div>Previous</div> <div>1</div> <div>Next</div> </div>

In this page, admin can see all crops, and click on **(Create Crop)** button in order to create a new one, similar to the following Figure.

Create Crop

Name

Description

HTML is allowed

Root

Max Height

Save

Crop seasons

Similarly, admin can see the list of already defined crop seasons **(Administration:Crop Seasons)** by clicking on Crop Seasons.

Crop Seasons

Show 10 entries

Search:

Name	Description	Farm	Crop	Start	End	Namespace	Actions
Test		Sarsabz	Mais	5 months ago	Not defined yet	Pakistan	
Winter Crop		Sarsabz	Mais	5 months ago	24 days ago	Pakistan	
Winter Crops		Sarsabz	Apple	4 months ago	Not defined yet	Pakistan	

Showing 1 to 3 of 3 entries

Previous1Next

Here, admin can create a crop season for a farm with a crop in his namespace by clicking on **(Create Crop Season)** button, similar to the following Figure. Admin needs to specify farm, crop, and starting date. End date is optional, as this date may change.

Create Crop Season

Name
Summer Season

Description

HTML is allowed

Farm
Mustapha
Select

Crop
Mais
Select

Namespace

Start:
2018-05-01

End:
YYYY-MM-DD

Save

Farm Management

Admin can see the list of all created farms in Senegal namespace (**Administration:Farms**) by clicking on Farms menu link. Here, admin can also create and edit farms and share them with other users.

In general, admin has "view", "edit", "delete", and "share" capabilities on all the farms within his namespaces. He can see all farms within namespaces that have been shared with him or as part of namespace sharing.

Farms

Create Farm

Show 10 entries
Search:

Id	Name	Description	Address	Created	Namespace	Actions
1	Sarsabz		Lahore	2 months ago	Pakistan	🔗 🔗
4	Khalil	Khalil	Okara	a month ago	Pakistan	🔗 🔗
5	Mitchells		Renala	a month ago	Pakistan	🔗 🔗
6	Mustapha		Sheekhupura	a month ago	Pakistan	🔗 🔗
8	NARC_Farm			20 days ago	Pakistan	🔗 🔗

Showing 1 to 5 of 5 entries

Previous
1
Next

In order to create a new farm, admin needs to click on (**Create Farm**), similar to the following Figure. **You need to provide Address field in order to enable weather service to collect weather conditions and forecast and present it to you.**

Create Farm

Name

Description

HTML is allowed

Address

HTML is allowed

Namespace

Root

India

Pakistan

Lahore

After farm creation, admin needs to edit a farm by clicking on Edit button in actions column, and add farm's sensors to the farm by clicking on Sensors tab. Here, he needs to click on Select button, then select the sensor from the list, and click on Add button in order to add the sensor to the farm, similar to the following Figure.

Sensor
EditSensorsShare

Add Sensor

Sensors

Select

Existing Sensors

Show 10 entries

Search:

Id	Name	Description	Created	Namespace	Cid	Action
54	NARC_Farm_Sensor10	SensorDiscovery	20 days ago	Pakistan	NARC_Farm_Sensor10	✕
55	NARC_Farm_Sensor12	SensorDiscovery	16 days ago	Root	NARC_Farm_Sensor12	✕

Showing 1 to 2 of 2 entries

Previous1Next

Admin can share farms with other users (with the role of farmers, and advisors) by clicking on Share button (the last one) in Actions column. In this page, he needs to select the user, and its role and click on the **Share** button in order to share the farm with the selected user.

Share

EditSensorsShare

Add User

User

Select

Show

10

▼

entries

Search:

#	Username	Full Name
6	mustapha	mustapha
7	khalil	khalil
8	mitchells	Mitchells
9	NARC	Abdul Ghafoor Mangrio
10	test	Mehdi Sheikhalishahi

Showing 1 to 5 of 5 entries

Previous1Next

Role

Select

Show

10

▼

entries

Search:

Name	Description
Admin	All admin permissions at farm level
Advisor	Advisor permissions
Farmer	Farmer permissions
Master	All permissions

Showing 1 to 4 of 4 entries

Previous1Next

✓ Share

Admin can also delete a farm by going to Edit page, and clicking on Delete button.

Edit Farm

EditSensorsShare

Name

NARC_Farm

Description

HTML is allowed

Address

HTML is allowed

Namespace

Root

India

Pakistan

Lahore

✓ Save

✗ Delete

3.3. Advisor

Creating event types

Similarly, advisor can see the list of already defined event types (**Administration:Event Types**) by clicking on Event Types.

Event Types				
				+ Create Event Type
Show	10	entries	Search: <input type="text"/>	
Name	Description	Unit	Actions	
Biological Yield	Biological Yield	Tons	✎	
Emmamacin	Emmamacin used	ml	✎	
Granular Pesticides	Granular Pesticides used	kg	✎	
Herbicides	Herbicides used	ml	✎	
Irrigation		m3	✎	
Nitrogen	Nitrogen applied	kg	✎	
Number of leaves	Number of leaves	plant	✎	
Number of plants	Number of plants	sq m	✎	
Phosphorous	Phosphorous applied	kg	✎	
Plant Height	Plant Height	ft	✎	
Showing 1 to 10 of 15 entries				Previous 1 2 Next

In this page, advisor can see all event types, and click on (**Create Event Types**) button in order to create a new one, similar to the following Figure.

Create Event Type	
Name	<input type="text"/>
Description	<input type="text"/>
	HTML is allowed
Unit	<input type="text"/>
✓ Save	

Creating crops

Similarly, advisor can see the list of already defined crops (**Administration:Crops**) by clicking on Crops.

Crops					
<div> <div>Show 10 entries</div> <div>Search:</div> </div>					<div>+ Create Crop</div>
Name	Description	Root	Max Height	Actions	
Apple	Apple	100	700		
Mais	Mais	100	300		
Showing 1 to 2 of 2 entries					<div> <div>Previous</div> <div>1</div> <div>Next</div> </div>

In this page, advisor can see all crops, and click on (**Create Crop**) button in order to create a new one, similar to the following Figure.

Create Crop

Name

Description

HTML is allowed

Root

Max Height

Save

Crop seasons

Similarly, advisors can see the list of already defined crop seasons (**Administration:Crop Seasons**) by clicking on Crop Seasons.

Crop Seasons

Show 10 entries

Search:

Name	Description	Farm	Crop	Start	End	Namespace	Actions
Test		Sarsabz	Mais	5 months ago	Not defined yet	Pakistan	
Winter Crop		Sarsabz	Mais	5 months ago	24 days ago	Pakistan	
Winter Crops		Sarsabz	Apple	4 months ago	Not defined yet	Pakistan	

Showing 1 to 3 of 3 entries

Previous1Next

Here, advisors can create a crop season for a farm with a crop in his namespace by clicking on **(Create Crop Season)** button, similar to the following Figure. Advisors needs to specify farm, crop, and starting date. End date is optional, as this date may change.

Create Crop Season

Name: Summer Season

Description:
HTML is allowed

Farm: Mustapha Select

Crop: Mais Select

Namespace:

Start: 2018-05-01

End: YYYY-MM-DD

Save

Farm Management

An advisor can see the list of shared farms with him **(Administration:Farms)** by clicking on Farms menu link. For this advisor, there are the following farms shared with him.

Farms

Show 10 entries Search:

Id	Name	Description	Address	Created	Namespace	Actions
1	Sarsabz		Lahore	2 months ago	Pakistan	
4	Khali	khali	Okara	a month ago	Pakistan	

Showing 1 to 2 of 2 entries

Previous 1 Next

Here, an advisor can also create and edit farms. In order to create a new farm, advisor needs to click on **(Create Farm)**, and provide all information about farm, similar to the following Figure.

Create Farm

Name: My Test Farm

Description:
HTML is allowed

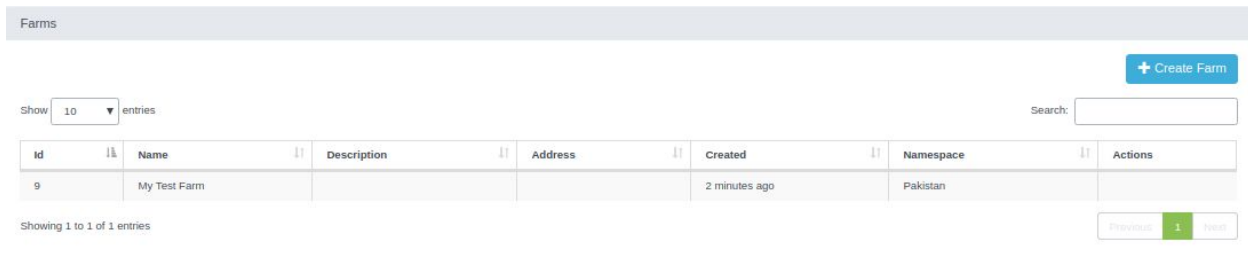
Address:
HTML is allowed

Namespace:

Save

After farm creation, advisor needs to wait for one of the admins confirmation about this new farm.

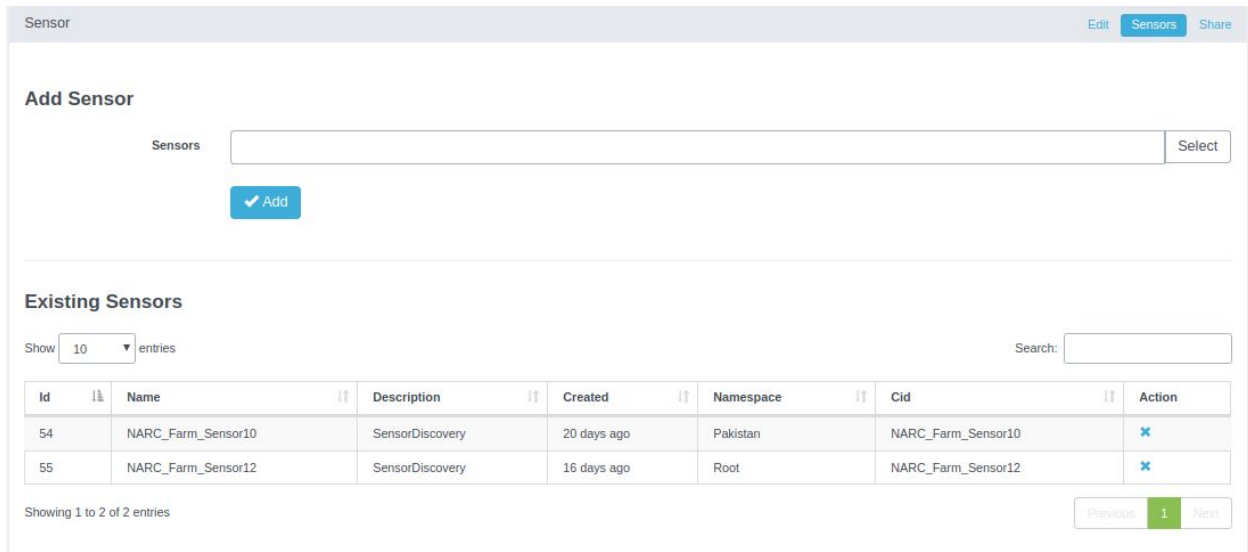
After this confirmation, advisor can see his farm in the list (the following Figure).



The screenshot shows the 'Farms' page with a '+ Create Farm' button in the top right. Below the header, there is a 'Show 10 entries' dropdown and a search bar. The main table has columns: Id, Name, Description, Address, Created, Namespace, and Actions. It contains one row with Id 9, Name 'My Test Farm', and Created '2 minutes ago'. The namespace is 'Pakistan'. At the bottom, it says 'Showing 1 to 1 of 1 entries' and has 'Previous', '1', and 'Next' navigation links.

Id	Name	Description	Address	Created	Namespace	Actions
9	My Test Farm			2 minutes ago	Pakistan	

After farm creation, advisor needs to edit a farm by clicking on Edit button in actions column, and add farm's sensors to the farm by clicking on Sensors tab. Here, he needs to click on Select button, then select the sensor from the list, and click on Add button in order to add the sensor to the farm, similar to the following Figure.



The screenshot shows the 'Sensor' page with tabs for 'Edit', 'Sensors', and 'Share'. The 'Sensors' tab is active. It has an 'Add Sensor' section with a search bar and a 'Select' button. Below that is an 'Add' button. The 'Existing Sensors' section has a table with columns: Id, Name, Description, Created, Namespace, Cid, and Action. It contains two rows: one with Id 54, Name 'NARC_Farm_Sensor10', Description 'SensorDiscovery', Created '20 days ago', Namespace 'Pakistan', Cid 'NARC_Farm_Sensor10', and Action 'X'; and another with Id 55, Name 'NARC_Farm_Sensor12', Description 'SensorDiscovery', Created '16 days ago', Namespace 'Root', Cid 'NARC_Farm_Sensor12', and Action 'X'. At the bottom, it says 'Showing 1 to 2 of 2 entries' and has 'Previous', '1', and 'Next' navigation links.

Id	Name	Description	Created	Namespace	Cid	Action
54	NARC_Farm_Sensor10	SensorDiscovery	20 days ago	Pakistan	NARC_Farm_Sensor10	X
55	NARC_Farm_Sensor12	SensorDiscovery	16 days ago	Root	NARC_Farm_Sensor12	X

An advisor can also edit and delete his farms.

In general, an advisor has "view", "edit", and "delete" permissions on his farms.

Advisor can delete a farm by going to Edit page, and clicking on Delete button.

Edit Farm
Edit
Sensors
Share

Name
NARC_Farm

Description
HTML is allowed

Address
HTML is allowed

Namespace
Root
India
Pakistan
Lahore

Save
Delete

Recommendation Management

An advisor can see the list of all recommendations created by him for his farms (**Administration:Farms**) by clicking on Recommendations menu link (the following Figure).

Recommendations
+ Create Recommendation

Show 10 entries
Search:

Advisor	Farmer	Farm	Event Type	Description	Scheduled for	Quantity	Cost	Actions
Advisor Pakistan	Sohail	Sarsabz	Nitrogen	This recommendation is related to ...	2 months ago	20	20	
Advisor Pakistan	Sohail	Sarsabz	Number of plants	This recommendation is related to ...	a month ago	45	677	

Showing 1 to 2 of 2 entries
Previous
Next

Here, an advisor can also create and edit recommendations. In order to create a recommendation, an advisor needs to click on (**Create Recommendation**), and provide all information about recommendation (selecting farm, farmer, recommendation type, when scheduled for, etc.), similar to the following Figure.

Create Recommendation

Farm
Khalli
Select

Farmer
Sohail
Select

Recommendation Type
Granular Pesticides
Select

Description
This recommendation is related to ...
HTML is allowed

Scheduled for:
2018-04-30 00:00:00

Quantity

Cost

Save

After recommendation creation, he can see the new recommendation in the list of recommendations.

recommendation saved

Recommendations

+ Create Recommendation

Show 10 entries

Search:

Advisor	Farmer	Farm	Event Type	Description	Scheduled for	Quantity	Cost	Actions
Advisor Pakistan	Sohail	Sarsabz	Nitrogen	This recommendation is related to ...	2 months ago	20	20	🔗
Advisor Pakistan	Sohail	Sarsabz	Number of plants	This recommendation is related to ...	a month ago	45	677	🔗
Advisor Pakistan	Sohail	khali	Granular Pesticides	This recommendation is related to ...	in 6 days	0	0	🔗

Showing 1 to 3 of 3 entries

Previous 1 Next

Event Management

An advisor can see the list of all events created by him or by farmers for his farms (**Administration:Farms**) by clicking on Events menu link (the following Figure).

Events

+ Create Event

Show 10 entries

Search:

User (Farmer)	Farm	Event Type	Description	Happened	Quantity	Cost	Actions
Advisor Pakistan	Sarsabz	Biological Yield	A description about event	2 months ago	100	100	🔗
Advisor Pakistan	Sarsabz	Emmamacin	A description about event	3 months ago	200	200	🔗
Advisor Pakistan	Sarsabz	Granular Pesticides	A description about event	4 months ago	300	300	🔗
Sohail	Sarsabz	Irrigation	A description about event	3 months ago	10	10	🔗
Sohail	Sarsabz	Potash	A description about event	2 months ago	100	100	🔗

Showing 1 to 5 of 5 entries

Previous 1 Next

Here, an advisor can also create and edit events. In order to create an event, an advisor needs to click on (**Create Event**), and provide all information about event (selecting farm, event type, when happened, etc.), similar to the following Figure.

Create Event

Farm

My Test Farm

Select

Event Type

Irrigation

Select

Description

A description about event

HTML is allowed

Happened:

2018-04-23 00:00:00

Quantity

500

Cost

200

Save

After event creation, he can see the new event in the list of events.

event saved

Events

Show 10 entries

Search:

Create Event

User (Farmer)	Farm	Event Type	Description	Happened	Quantity	Cost	Actions
Test Farmer	My Test Farm	Irrigation	A description about event	16 hours ago	500	200	

Showing 1 to 1 of 1 entries

Previous

1

Next

3.4. Farmer

Event types

Farmers can only see the list of already defined event types (Administration:Event Types) by clicking on Event Types.

Event Types

Show 10 entries

Search:

Name	Description	Unit
Plant weight including cobs	Plant weight including cobs	grams
Potash	Potash applied	kg
Rain Fall	Rain Fall during cropping Period	mm
Rain Fall (Water)	Water through rain fall	m3
Zinc	Zinc applied	kg

Showing 11 to 15 of 15 entries

Previous

1

2

Next

Crops

Similarly, farmers can only see the list of already defined crops (Administration:Crops) by clicking on Crops.

Crops

Show 10 entries

Search:

Name	Description	Root	Max Height
Apple	Apple	100	700
Mais	Mais	100	300

Showing 1 to 2 of 2 entries

Previous

1

Next

Crop seasons

Similarly, farmers can see the list of already defined crop seasons (**Administration:Crop Seasons**) by clicking on Crop Seasons.

Crop Seasons								
Show 10 entries			Search: <input type="text"/>					
Name	Description	Farm	Crop	Start	End	Namespace	Actions	
Test		Sarsabz	Mais	5 months ago	Not defined yet	Pakistan		
Winter Crop		Sarsabz	Mais	5 months ago	24 days ago	Pakistan		
Winter Crops		Sarsabz	Apple	4 months ago	Not defined yet	Pakistan		
Showing 1 to 3 of 3 entries							Previous 1 Next	

Here, farmers can create a crop season for a farm with a crop in his namespace by clicking on (**Create Crop Season**) button, similar to the following Figure. Farmers needs to specify farm, crop, and starting date. End date is optional, as this date may change.

Create Crop Season	
Name	<input type="text" value="Summer Season"/>
Description	<div><input type="text"/></div> <div>HTML is allowed</div>
Farm	<div><input type="text" value="Mustapha"/></div> <div>Select</div>
Crop	<div><input type="text" value="Mais"/></div> <div>Select</div>
Namespace	<input type="text"/>
Start:	<div><input type="text" value="2018-05-01"/></div> <div></div>
End:	<div><input type="text" value="YYYY-MM-DD"/></div> <div></div>
<div>Save</div>	

Farm Management

A farmer can see the list of shared farms with him (**Administration:Farms**) by clicking on Farms menu link. For this farmer, there is not any farm shared with him.

Events

+ Create Event

Show 10 entries

Search:

User (Farmer)	Farm	Event Type	Description	Happened	Quantity	Cost	Actions
No data available in table							

Showing 0 to 0 of 0 entries

Previous

Next

Here, a farmer can also create and edit events. In order to create an event, a farmer needs to click on **(Create Event)**, and provide all information about event (selecting farm, event type, when happened, etc.), similar to the following Figure.

Create Event

Farm

My Test Farm

Select

Event Type

Irrigation

Select

Description

A description about event

HTML is allowed

Happened:

2018-04-23 00:00:00

Quantity

500

Cost

200

Save

After event creation, he can see the new event in the list of events.

event saved

Events

+ Create Event

Show 10 entries

Search:

User (Farmer)	Farm	Event Type	Description	Happened	Quantity	Cost	Actions
Test Farmer	My Test Farm	Irrigation	A description about event	16 hours ago	500	200	

Showing 1 to 1 of 1 entries

Previous

1

Next

4. Farms Workspace

This section goes over Farms Workspace (top and first menu link of the application).

IVIS

Farms Workspace

Administration

Account

Toggle sidebar

Home

/ Workspaces

/ All Farms Management

/ Your Farms

Farms Workspace provides various views for presentation of different information about farms such as farm view, farm events, farm recommendations, farm schedules (combination of events, and recommendations), farm map, farm crop seasons, etc.

This section is organized based on different roles of WAZIFARM application. We describe how Farms Workspace looks like based on each role, and what each role will see.

Advisor

When an advisor clicks on Farms Workspace menu link, he will see a view as the following Figure. In this view, he can see all his farms.




ID	Name	Description	Address	Created	Namespace	Actions
1	Sarsabz		Lahore	2 months ago	Pakistan	View Map Events Recommendations Schedules & Timeline Crop Seasons
4	Khali	khali	Osaka	a month ago	Pakistan	View Map Events Recommendations Schedules & Timeline Crop Seasons

In each row of farm, there is an Actions column, in which advisor can go into that specific farm view, farm events, farm recommendations, farm timeline & schedules, farm crop seasons, and farm map, respectively. These actions will lead into per farm information presentation.

Farm View

By clicking on Eye icon, advisor will go into Farm View (the following Figure).



Sarsabz's Farm View	View	Map	Events	Recommendations	Schedules & Timeline	Crop Seasons
Last 6 hours	< > 🔍 📅 🔄 📊					
Data point range (minimum: 0, maximum:100) - Data: percent Zones (over irrigation: 80, over dry:20)						

Here, user needs to click on “Last 6 hours” in order to choose the time range. User has multiple options how to use time range; in the left most part user can select the precise timing, in the middle part there are several preset quick ranges, and in the most right part there are time ranges based on crop seasons of that farm.

Sarsebz's Farm View

ViewMapEventsRecommendationsSchedules & TimelineCrop Seasons

Last 6 hours

Time Range

From:now-6hTo:nowAggregation by:autoRefreshing every:1 minute

Apply

Quick Ranges

Last 2 days

Last 7 days

Last 30 days

Last 90 days

Last 6 months

Last 1 year

Last 2 years

Last 5 years

Yesterday

Day before yesterday

This day last week

Previous week

Previous month

Previous year

Today

Today so far

This week

This week so far

This month

This month so far

This year

This year so far

Last 5 minutes

Last 15 minutes

Last 30 minutes

Last 1 hour

Last 3 hours

Last 6 hours

Last 12 hours

Last 24 hours

Crop Seasons Time Ranges

Winter Crops (Apple)Winter Crop (Maize)Test (Maize)

Data point range (minimum: 0, maximum:100) - Data: percent Zones (over irrigation: 80, over dry:20)

Then, advisor needs to click on the second row (Data point range) in order to provide graph options as the following:

- Sensors: select some sensors of the farm for visualization.
- Data: whether he wants to see line chart graph based on raw data values of sensors, or moisture percent.
- Over irrigation zone: what is the reference number for over irrigation area (to be highlighted in graph).
- Over dry zone: what is the reference number for over dry area.
- Minimum data points: this is to set the minimum data points that advisor would like to see. Only sensor data from minimum to maximum data points will be drawn on graph.
- Maximum data points: this is to set the maximum data points that advisor would like to see.

Data point range (minimum: 0, maximum:100) - Data: percent Zones (over irrigation: 80, over dry:20)

Farm View Graph Options

Sensors

WS_FARM1_Sensor3; WS_FARM1_Sensor2

Select

Show10entries

Search:

Name	Description	Created	Namespace	Cid
WSSensor2	ES data migration	2 months ago	Pakistan	WSSensor2
WSSensor3	ES data migration	2 months ago	Pakistan	WSSensor3
WSSensor4	ES data migration	2 months ago	Pakistan	WSSensor4
WS_FARM1_Sensor2	ES data migration	2 months ago	Pakistan	WS_FARM1_Sensor2
WS_FARM1_Sensor3	ES data migration	2 months ago	Pakistan	WS_FARM1_Sensor3
WS_FARM1_Sensor4	ES data migration	2 months ago	Pakistan	WS_FARM1_Sensor4
WS_Mustapha_Sensor8	ES data migration	2 months ago	Pakistan	WS_Mustapha_Sensor8
WS_Mustapha_Sensor9	ES data migration	2 months ago	Pakistan	WS_Mustapha_Sensor9
WS_SSP_Sensor2	ES data migration	2 months ago	Root	WS_SSP_Sensor2
WS_SSP_Sensor3	ES data migration	2 months ago	Root	WS_SSP_Sensor3

Showing 1 to 10 of 12 entries
2 entries selected. [Deselect all](#)

Previous12Next

Select all farm sensors for graphs.

Data

Raw data

Moisture percent

This specifies raw data or moisture percent for visualization data.

Over irrigation zone

80

This specifies over-irrigation zone area and line.

Over dry zone

20

This specifies over-dry zone area and line.

Minimum data points

0

This specifies minimum data points.

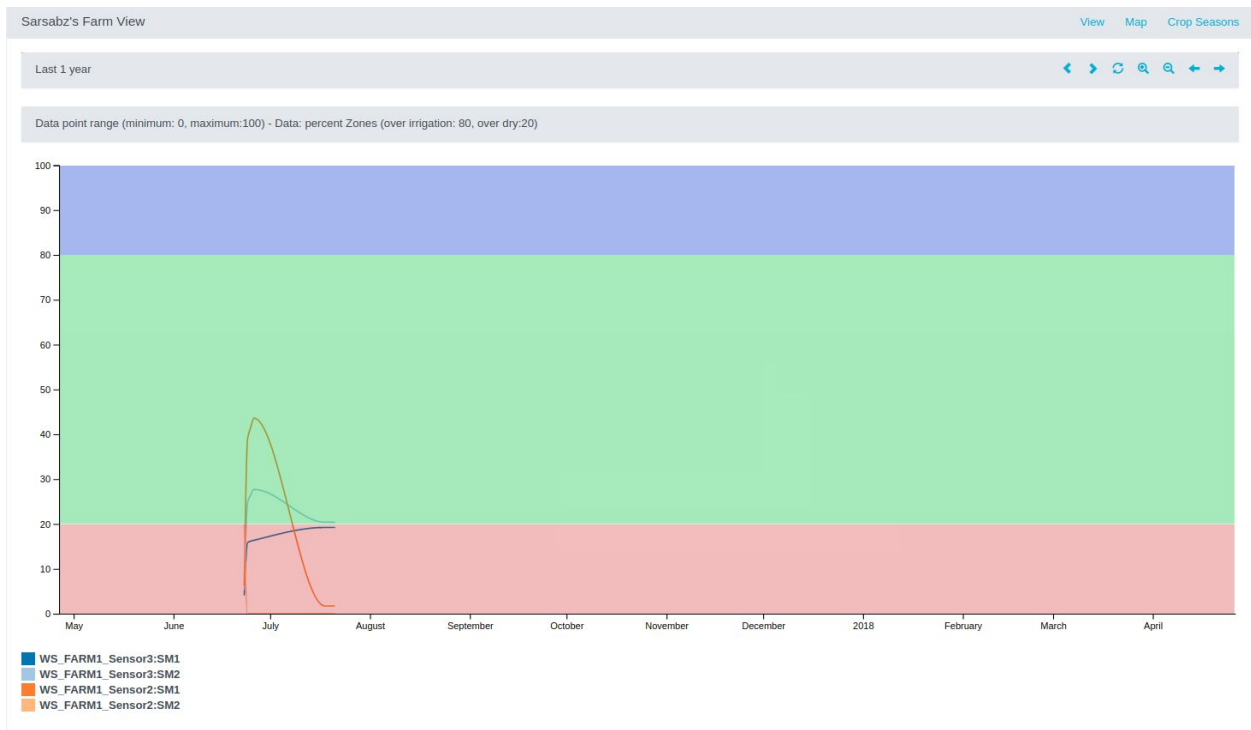
Maximum data points

100

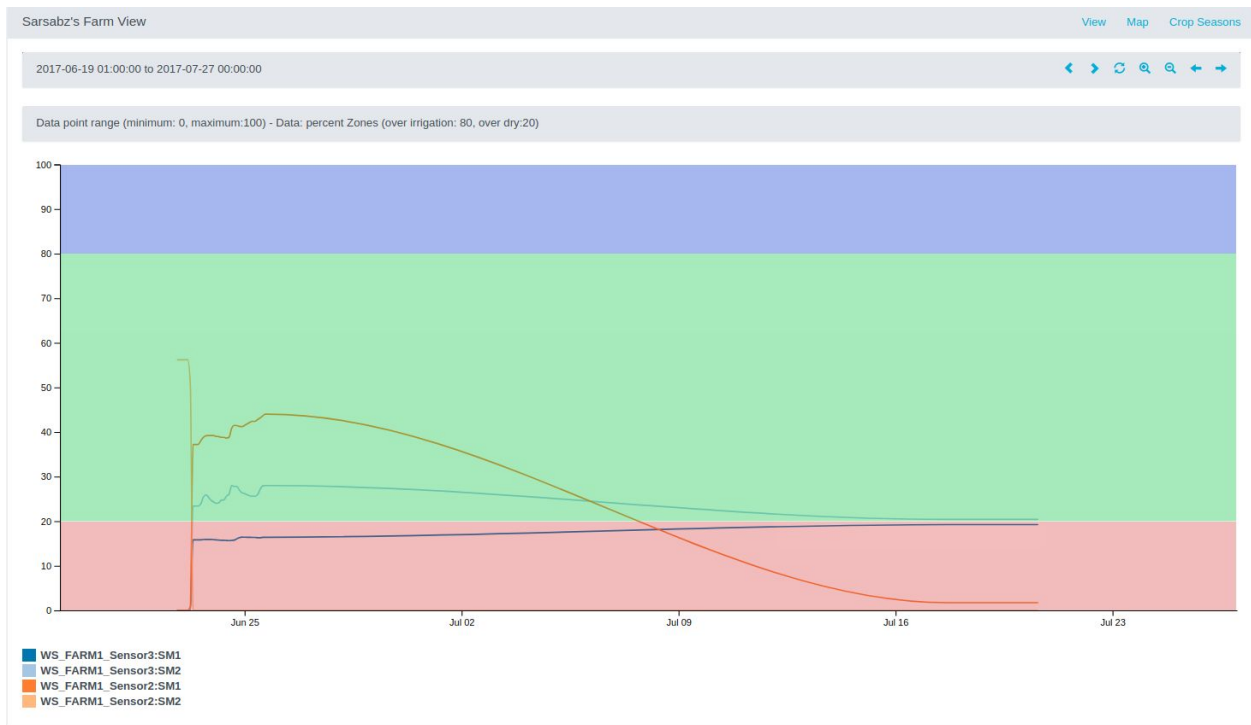
This specifies maximum data points.

Apply

After these settings, and clicking on Apply button, he will see Sarsabz's farm view for selected sensor.



Here, advisor can go deep into the data visualization by zoom-in (clicking on + icon), and zoom-out (clicking on - icon) buttons above graph, or by brushing mouse horizontally over time starting from a desired time and ending at a desired time.

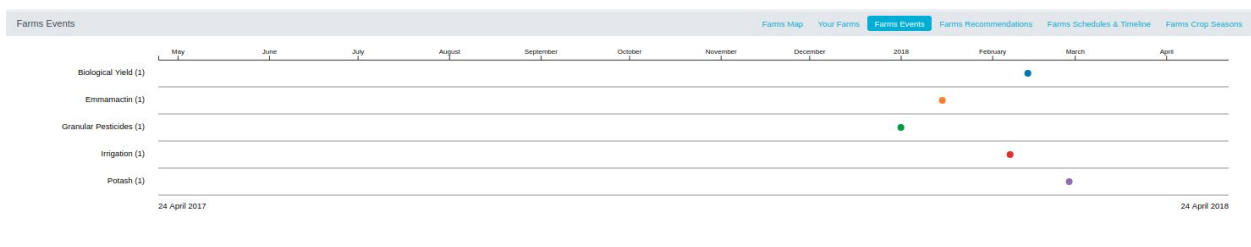


Advisor has two ways to access other Farms views that are: via vertical menu list on the left side of the page, or breadcrumb horizontal menu on top of Farms workspace. These actions will lead into per farm information presentation.

In each row of farm, there is an Actions column, in which advisor can go into that specific farm view, farm events, farm recommendations, farm timeline & schedules, farm crop seasons, and farm map, respectively.

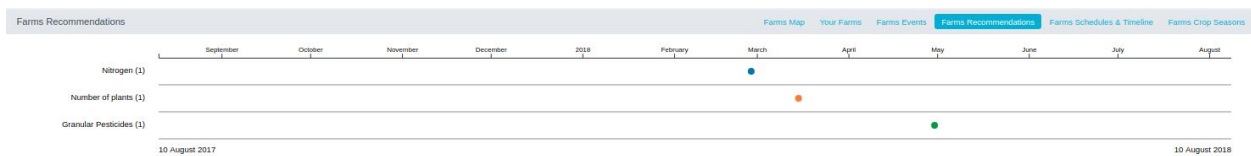
Events

In order to access Events view, he can click on Events link in vertical menu or Farms Events link in breadcrumb horizontal menu. Here, advisor can collectively see all events of all of his farms in a single view.



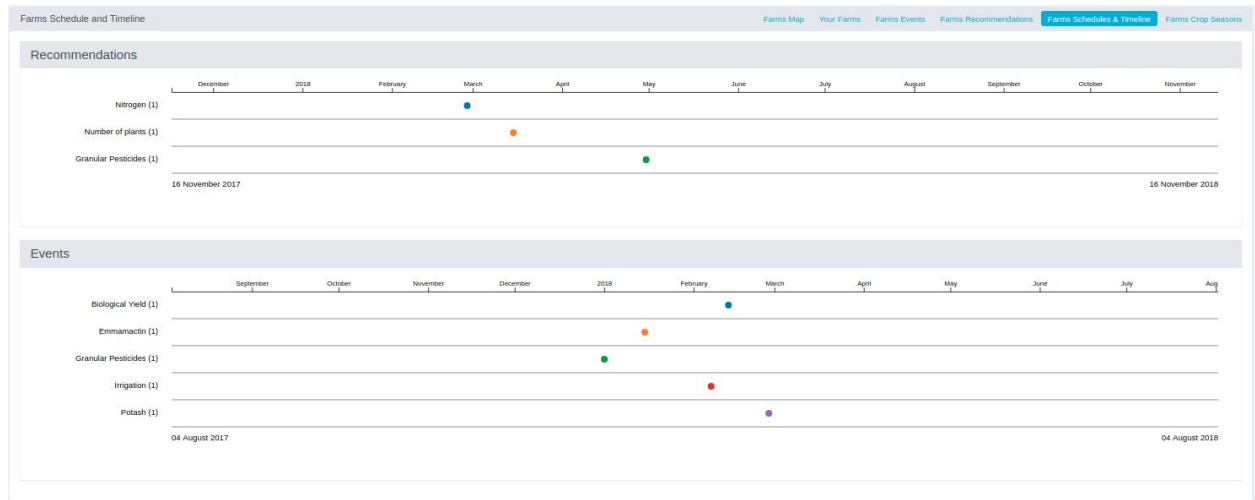
Recommendations

Similarly, in order to access Recommendations view, he can click on Recommendations link in vertical menu or Farms Recommendations link in breadcrumb horizontal menu. Here, advisor can collectively see all recommendations of all of his farms in a single view.



Farms Schedule and Timeline

In this same way, in order to access Farms Schedule and Timeline view, advisor can click on Schedule and Timeline link in vertical menu or Farms Schedule and Timeline link in breadcrumb horizontal menu. Here, advisor can collectively see all recommendations and events of all of his farms in a single view. Thus, Farms Schedule and Timeline is combination of events, and recommendations.



Farms Crop Seasons

In order to access Farms Crop Seasons view, advisor can click on Crop Seasons link in vertical menu or Farms Crop Seasons link in breadcrumb horizontal menu. Here, advisor can collectively see all crop seasons of all of his farms in a single view.

Farms Crop Seasons

Farms Map Your Farms Farms Events Farms Recommendations Farms Schedules & Timeline Farms Crop Seasons

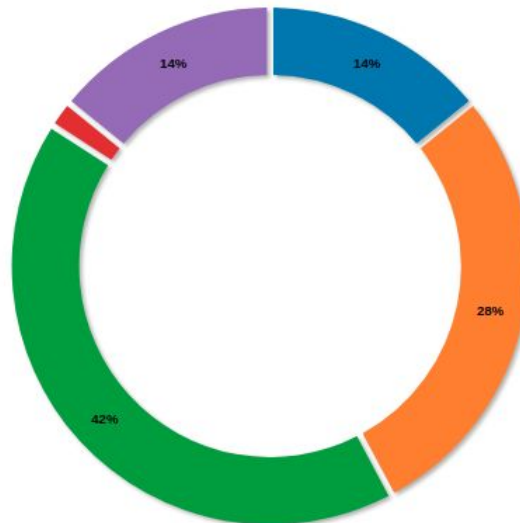
Show 10 entries Search:

ID	Name	Description	Farm	Crop	Start	End	Actions
1	Winter Crops		Sansabz	Apple	4 months ago	Not defined yet	View
2	Winter Crop		Sansabz	Mais	5 months ago	24 days ago	View
3	Test		Sansabz	Mais	5 months ago	Not defined yet	View

Showing 1 to 3 of 3 entries

Previous 1 Next

If advisor click on Eye icon of a crop season, he will be directed to crop season analysis about costs, and quantities of that crop season with two pie charts.



Event Costs (710)

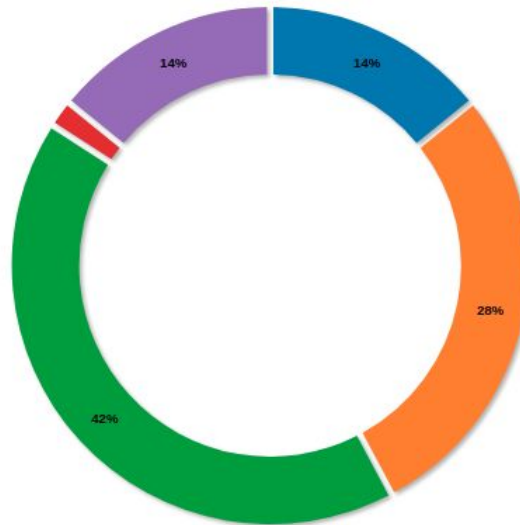
■ Biological Yield

■ Emmamactin

■ Granular Pesticides

■ Irrigation

■ Potash



Event Quantities (710)

■ Biological Yield

■ Emmamactin

■ Granular Pesticides

■ Irrigation

■ Potash

Farmer