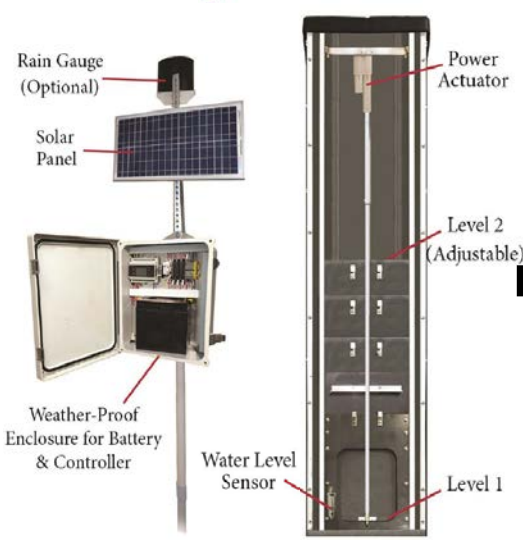
Agri Drain
CORPORATION

Technical service provided by:

Ecosystem Services Exchange
Valuing Conservation

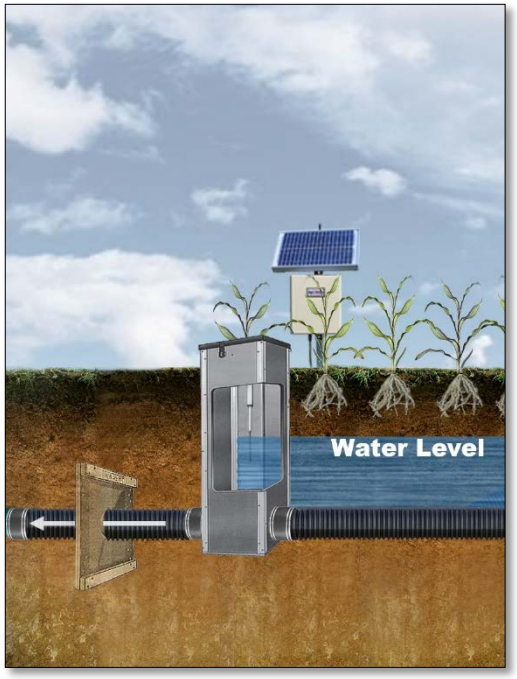
Smart Drainage System®

With Agri Drain's Smart Drainage System, you control the water level in your field remotely.



Automated Water Level Control Structure

Smart Drainage Website



Field Water Level

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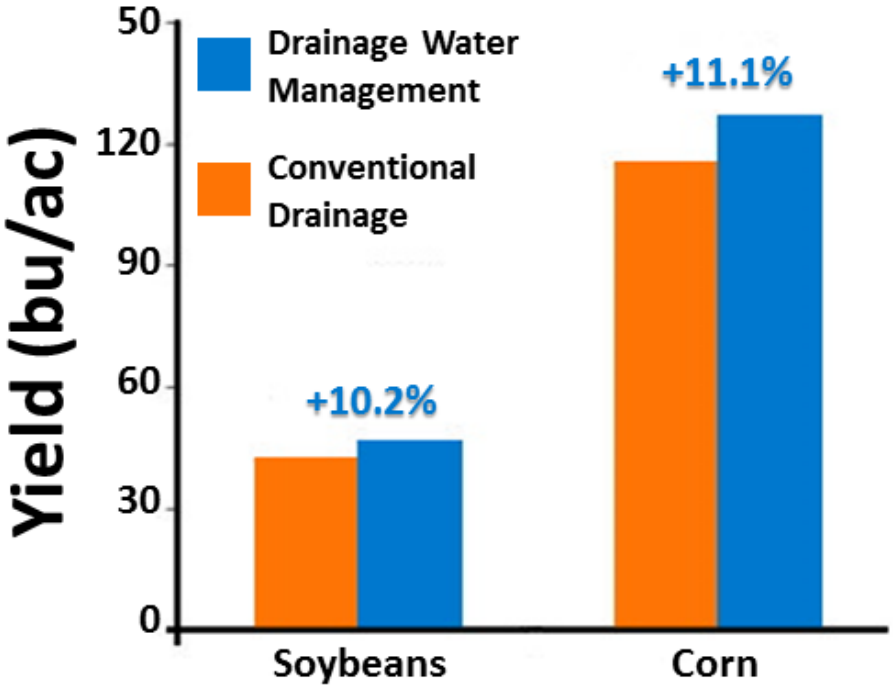
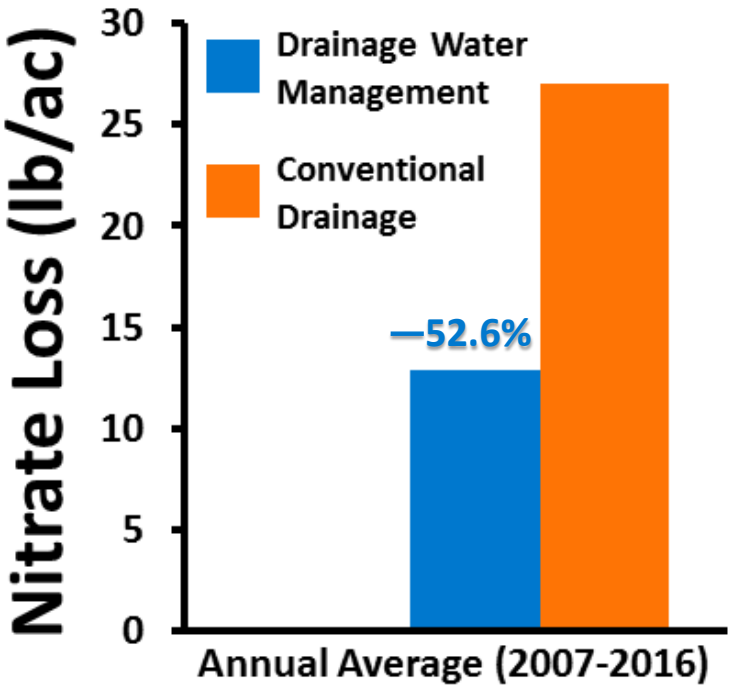
The Smart Drainage System gives you the ability to maximize yields while reducing nutrient loss.



Poole et al., 2013



Helmers et al., 2018

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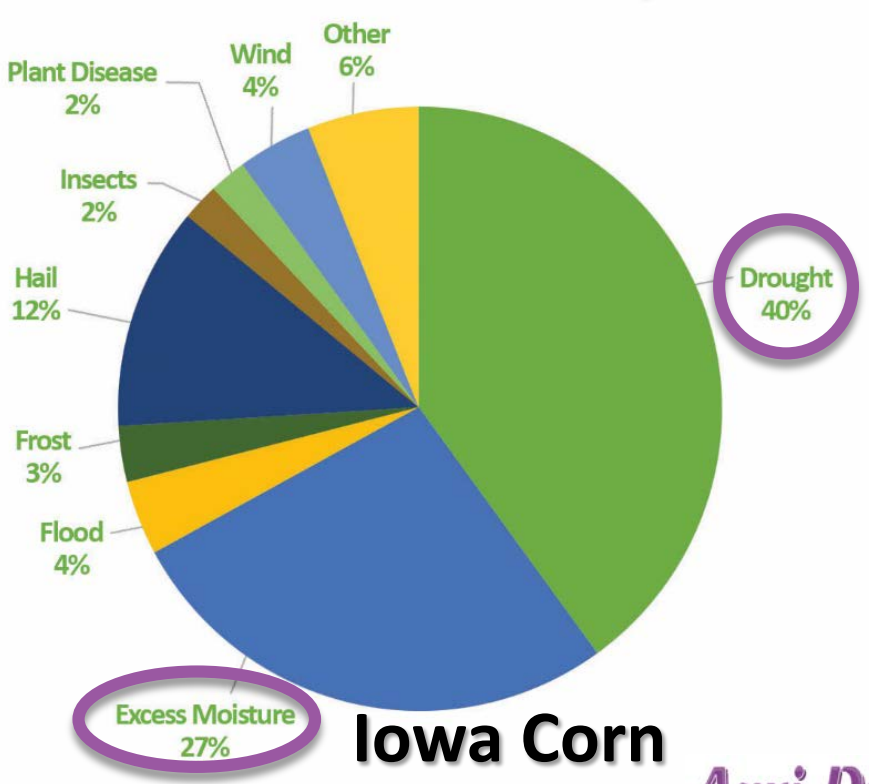
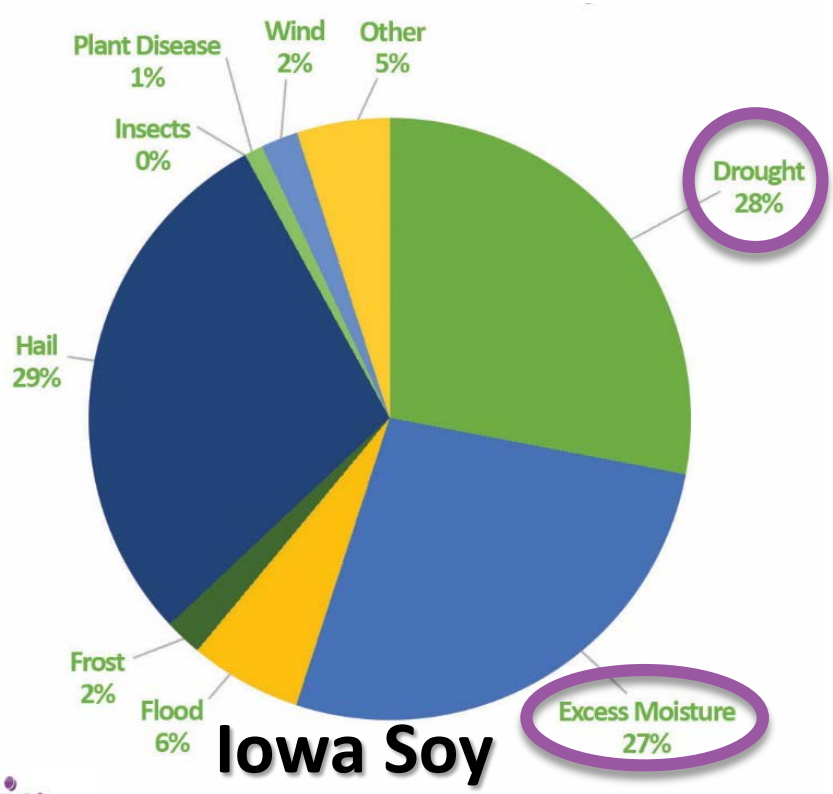
The Smart Drainage System helps protect your field from two of the most common causes of crop loss.

Causes for Loss (1955-2010)



Iowa Corn



Iowa Soy

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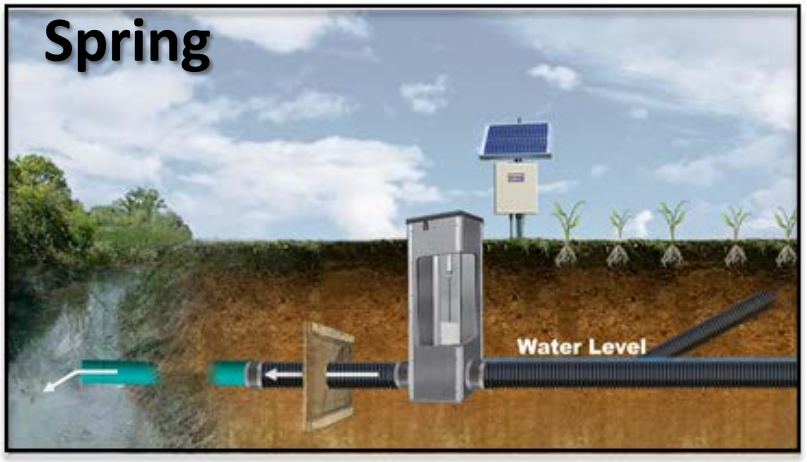
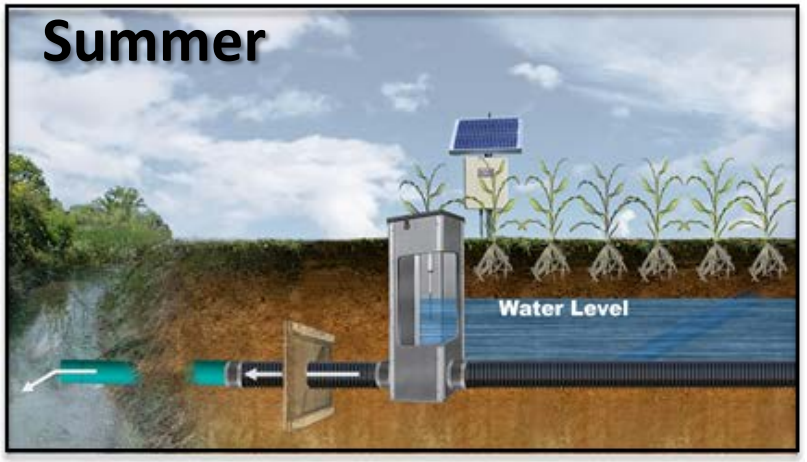
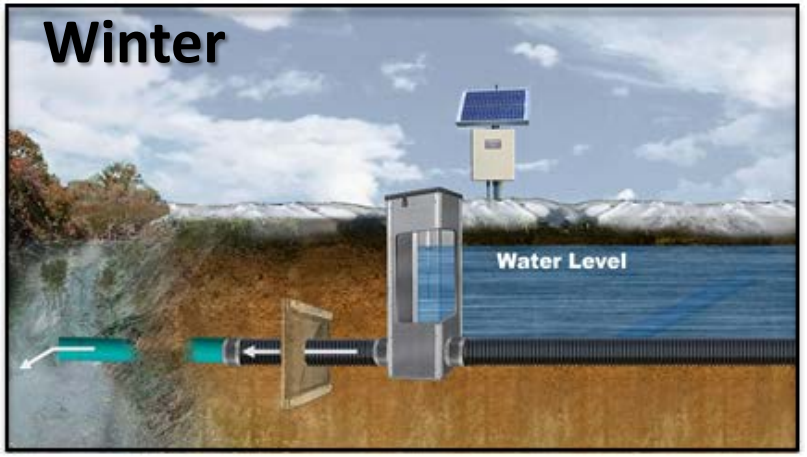
The water level is optimized for each season and soil moisture condition.







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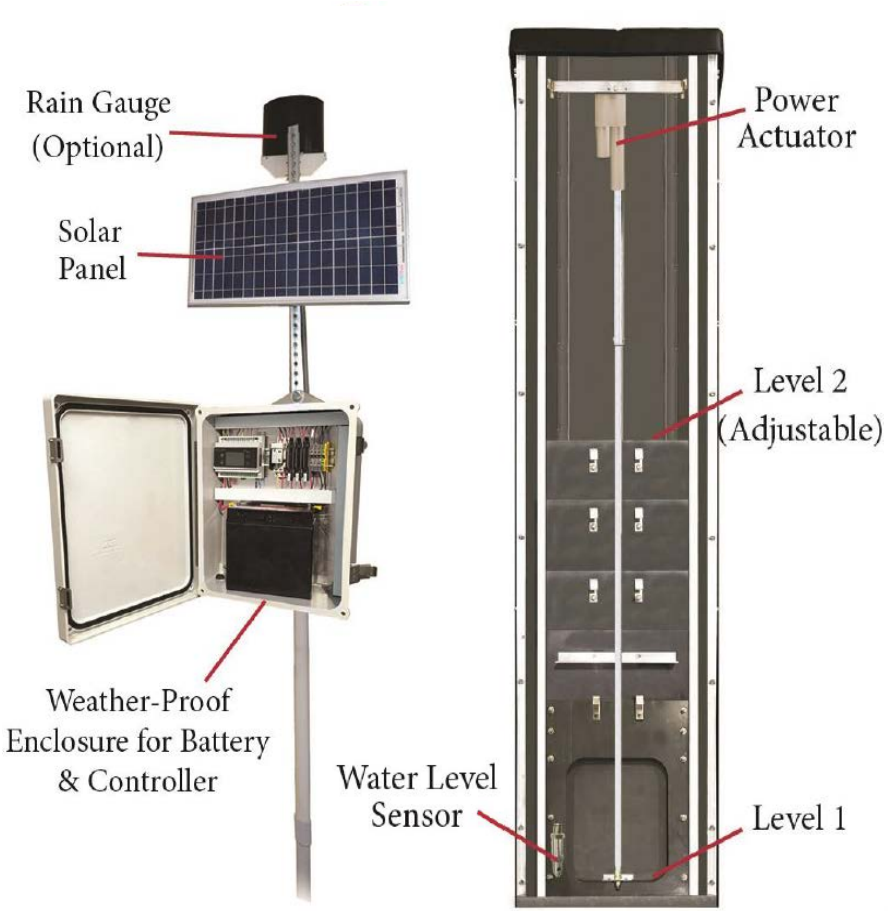
The Automated Water Level Control Structure (AWLCS) does the work for you.



- Open and close on-demand or automatically based on desired set points.
- Operates in drainage water management or irrigation mode.
- Components slide into tracks of an inline structure.
- 365 water level set points.
- 4 water level timers.
- 4 drain duration timers.
- Available for pipe sizes up to 15” diameter.

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You control everything through the Smart Drainage website.

- Program, monitor, and record site conditions from your cell phone, laptop, or tablet.
- Send commands to open or close the valve within your structure.
- Manage structure settings and set points.
- View valve status, water level, flow rates, and battery level.

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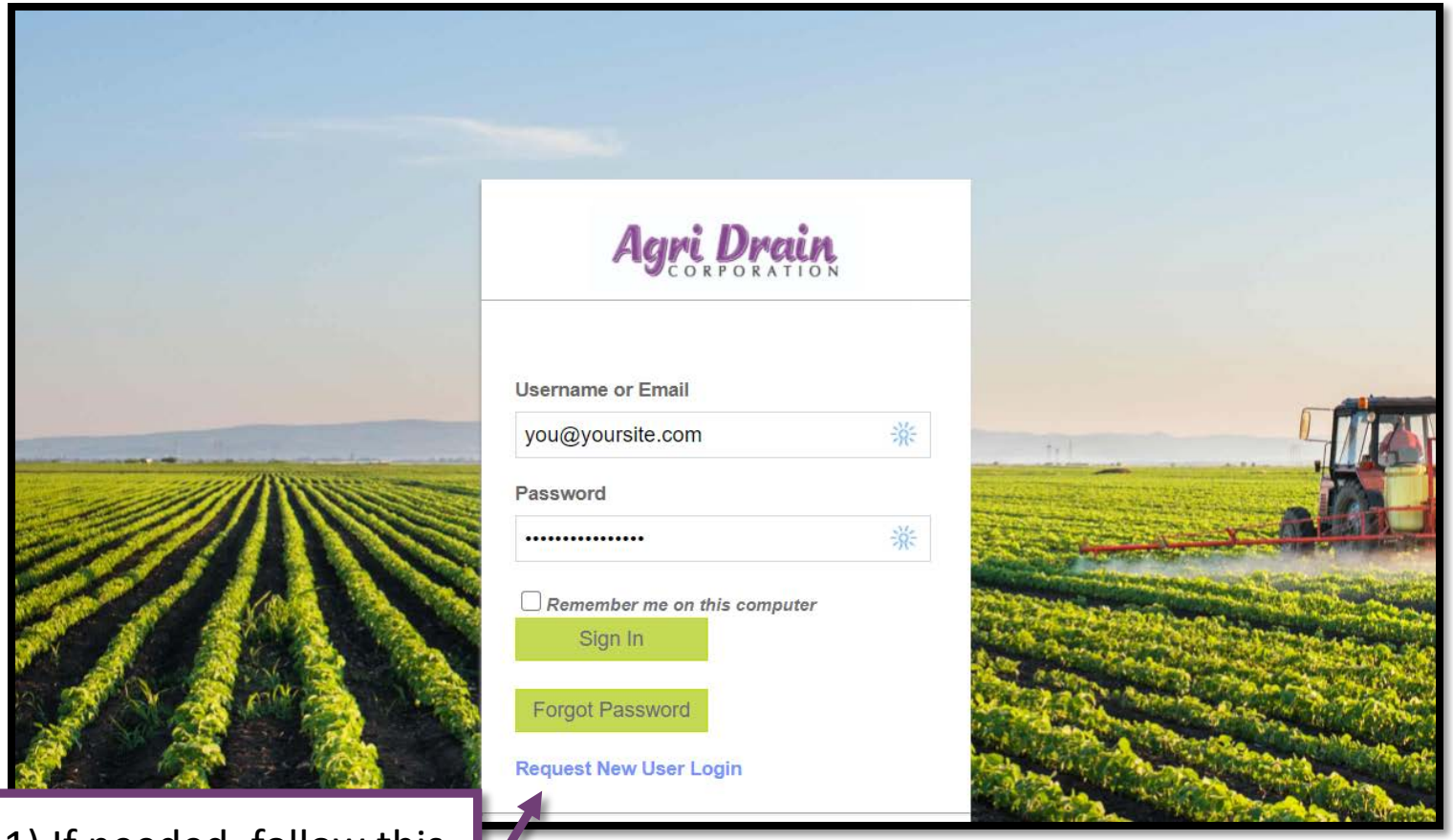
You'll get started by logging in.



1) If needed, follow this link to create a new user

www.SmartDrainageSystem.com

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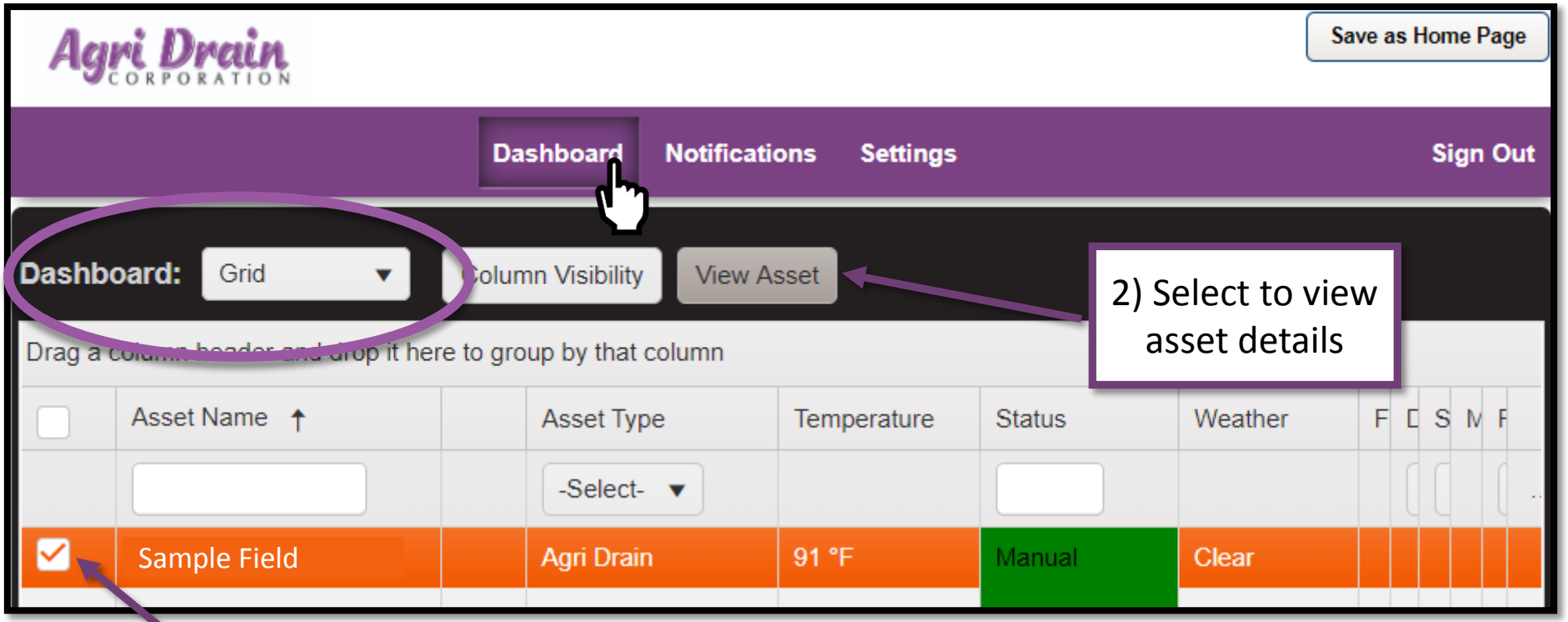
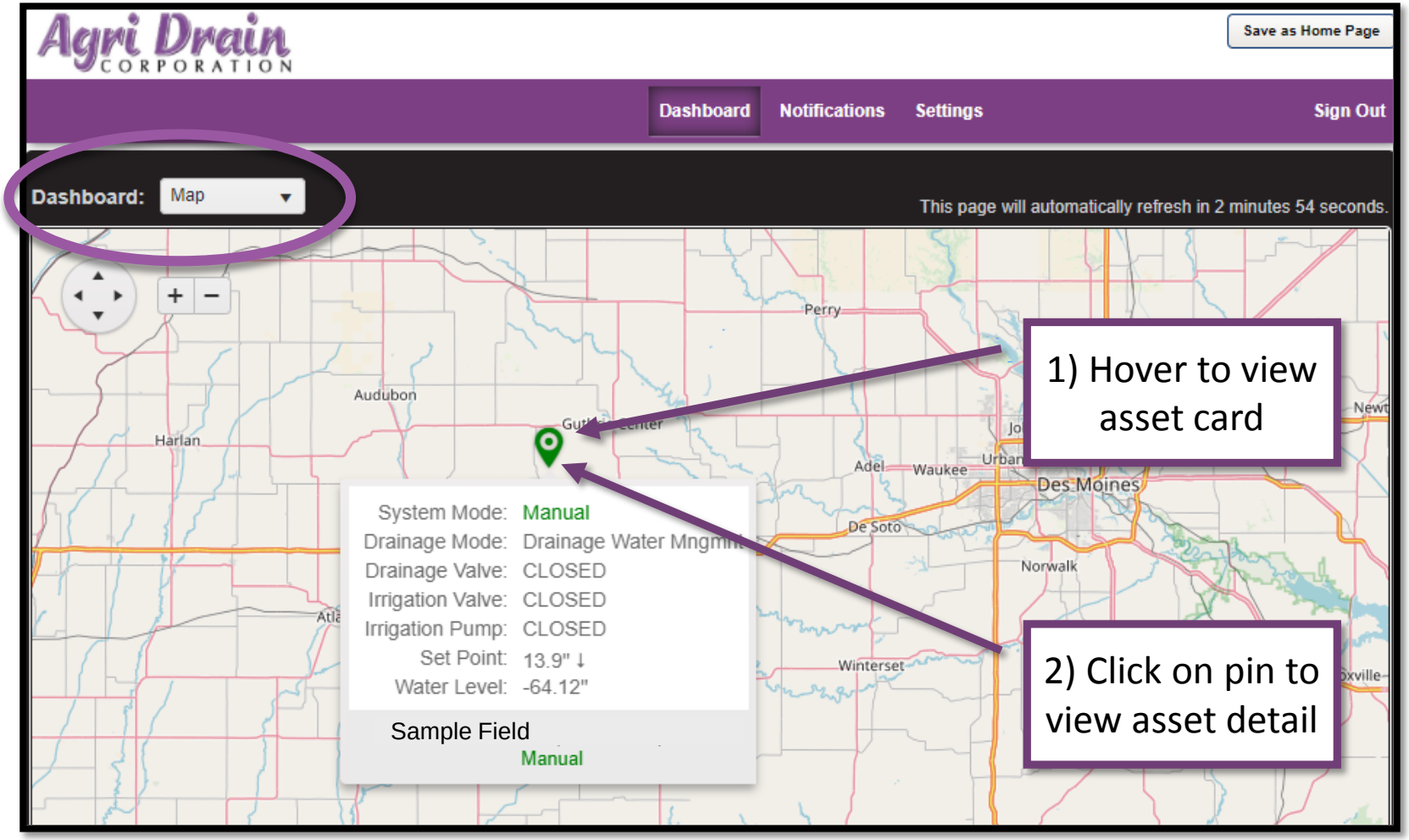
On the dashboard, you can view your AWLCS device (*asset*) in a grid,



or see your AWLCS device (*asset*) on the map.



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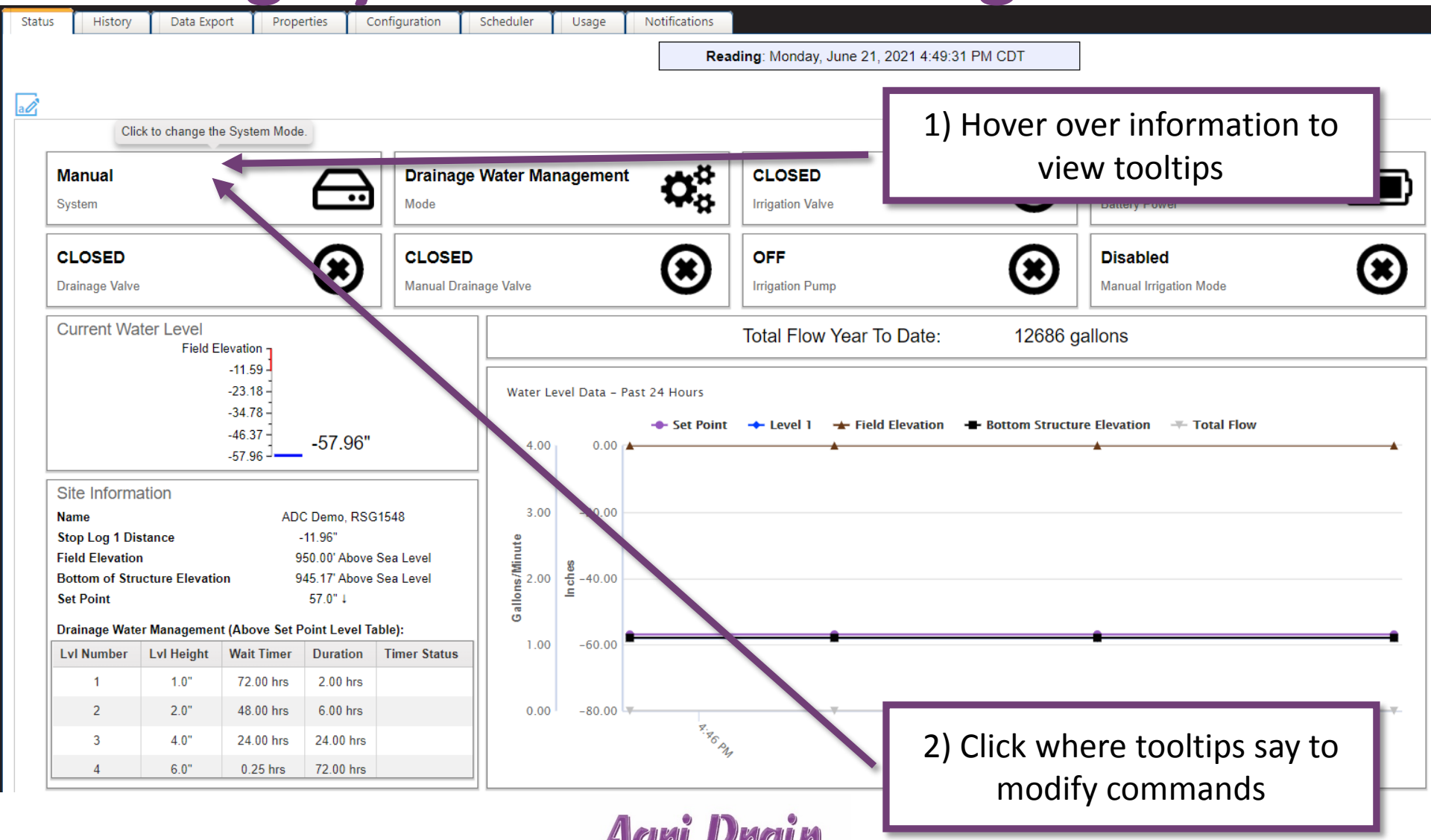
On the status tab you can view and manage your AWLCS settings.



1) Hover over information to view tooltips

2) Click where tooltips say to modify commands

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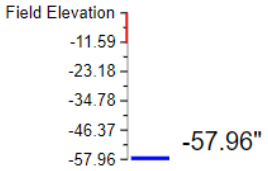
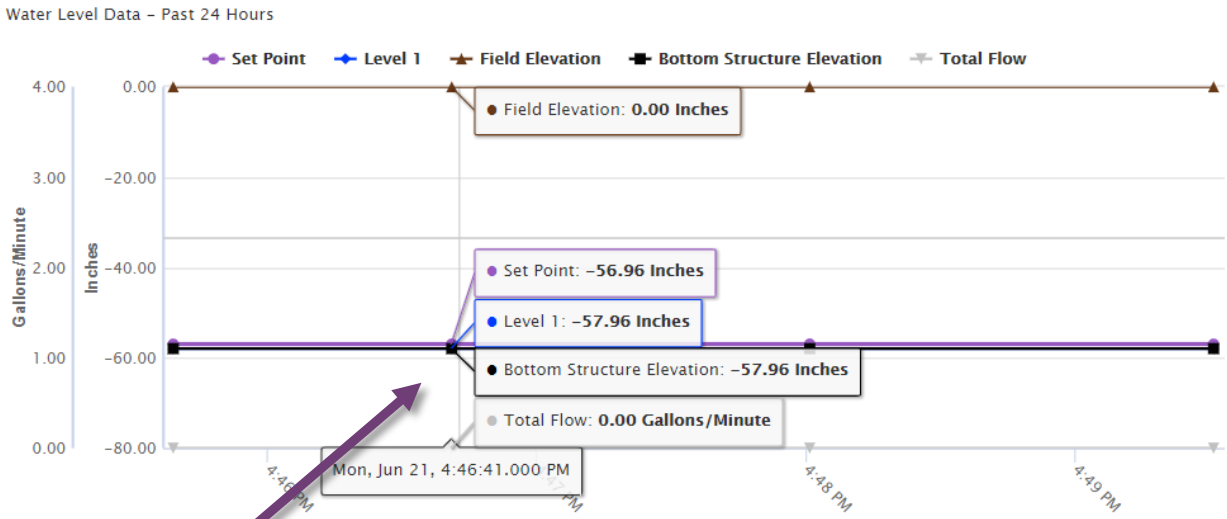
The water level chart shows details about each data point.

Manual System	**Drainage Water Management** Mode	**CLOSED** Irrigation Valve	**12.8 V** Battery Power
CLOSED Drainage Valve	**CLOSED** Manual Drainage Valve	**OFF** Irrigation Pump	**Disabled** Manual Irrigation Mode

Current Water Level



Total Flow Year To Date: 12686 gallons



Site Information

Name	ADC Demo, RSG1548
Stop Log 1 Distance	-11.96"
Field Elevation	950.00' Above Sea Level
Bottom of Structure Elevation	945.17' Above Sea Level
Set Point	57.0" ↓

Drainage Water Management (Above Set Point Level Table):

Lvl Number	Lvl Height	Wait Timer	Duration	Timer Status
1	1.0"	72.00 hrs	2.00 hrs	
2	2.0"	48.00 hrs	6.00 hrs	
3	4.0"	24.00 hrs	24.00 hrs	
4	6.0"	0.25 hrs	72.00 hrs	

1) Hover over graph to view data point details

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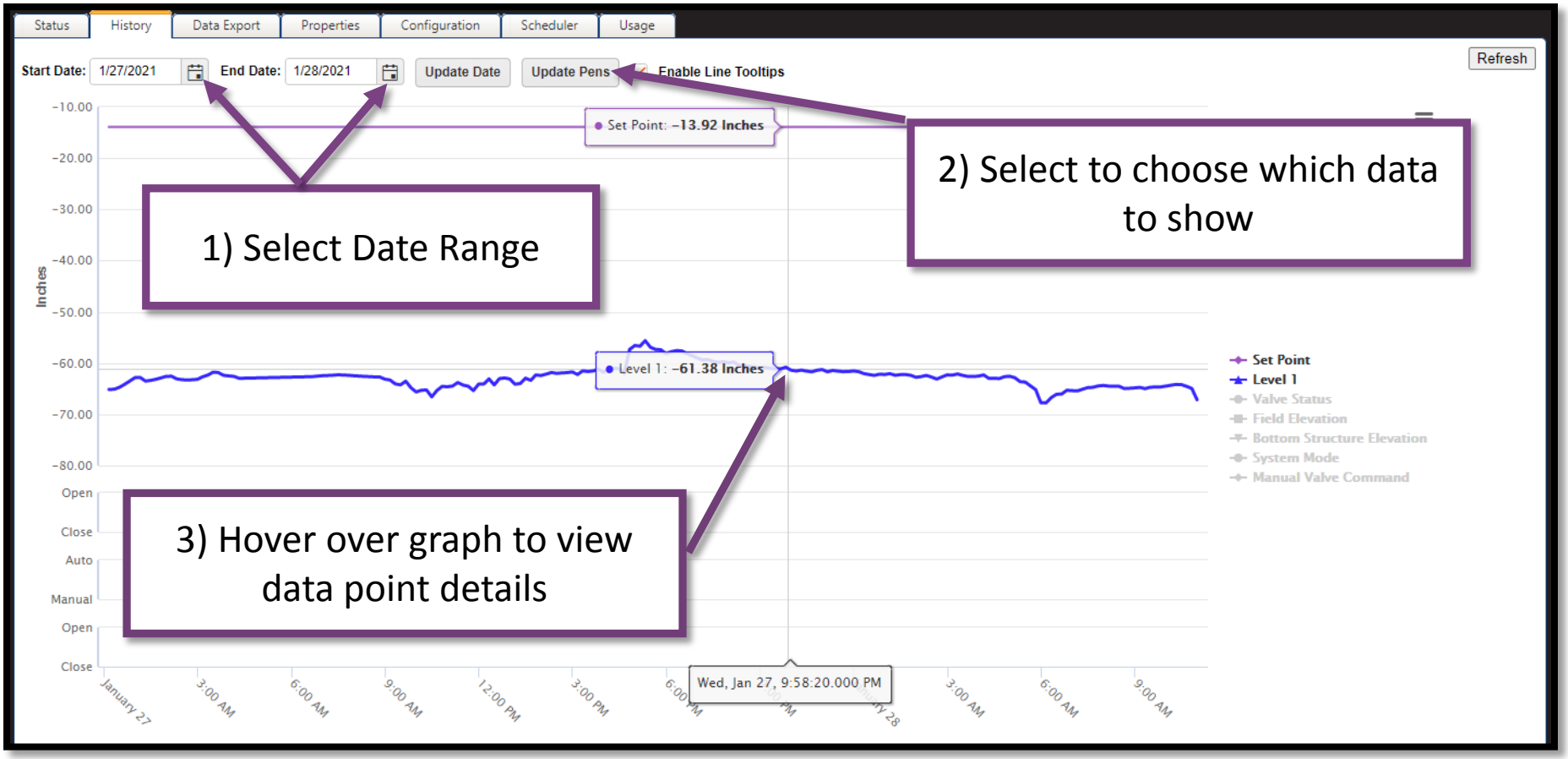
The history tab lets you set a date range to view.



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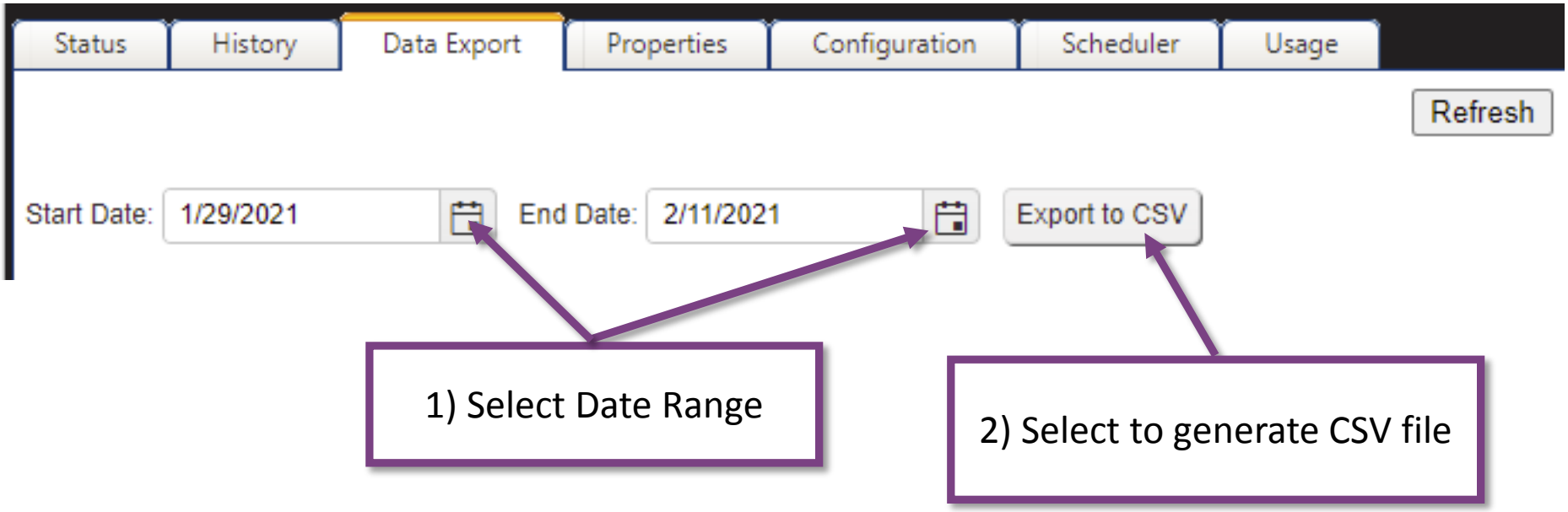
On the data export tab you can select a range of water level data to export as a CSV.



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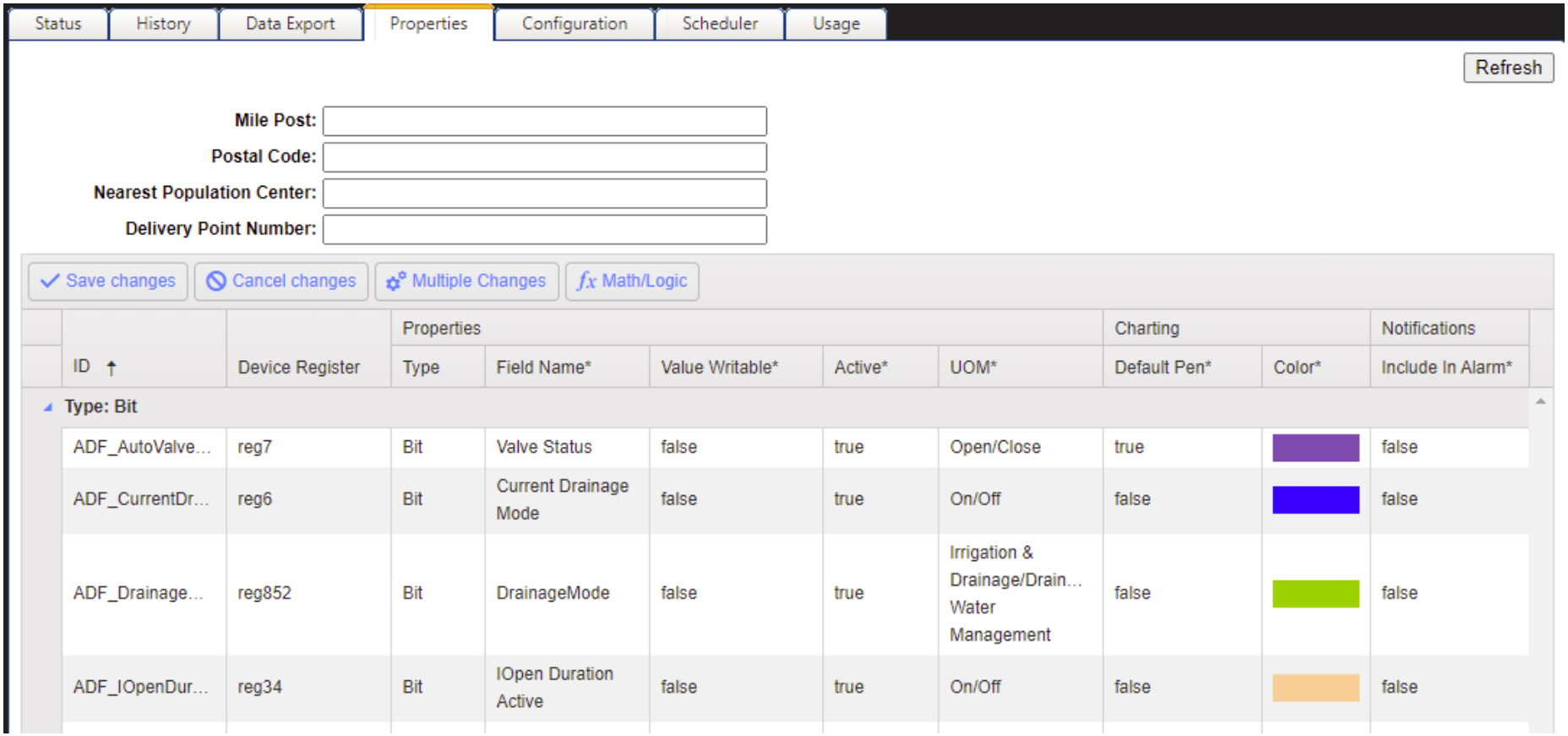
The properties tab can be used to apply math and logic functions to data collected by the AWLCS system.



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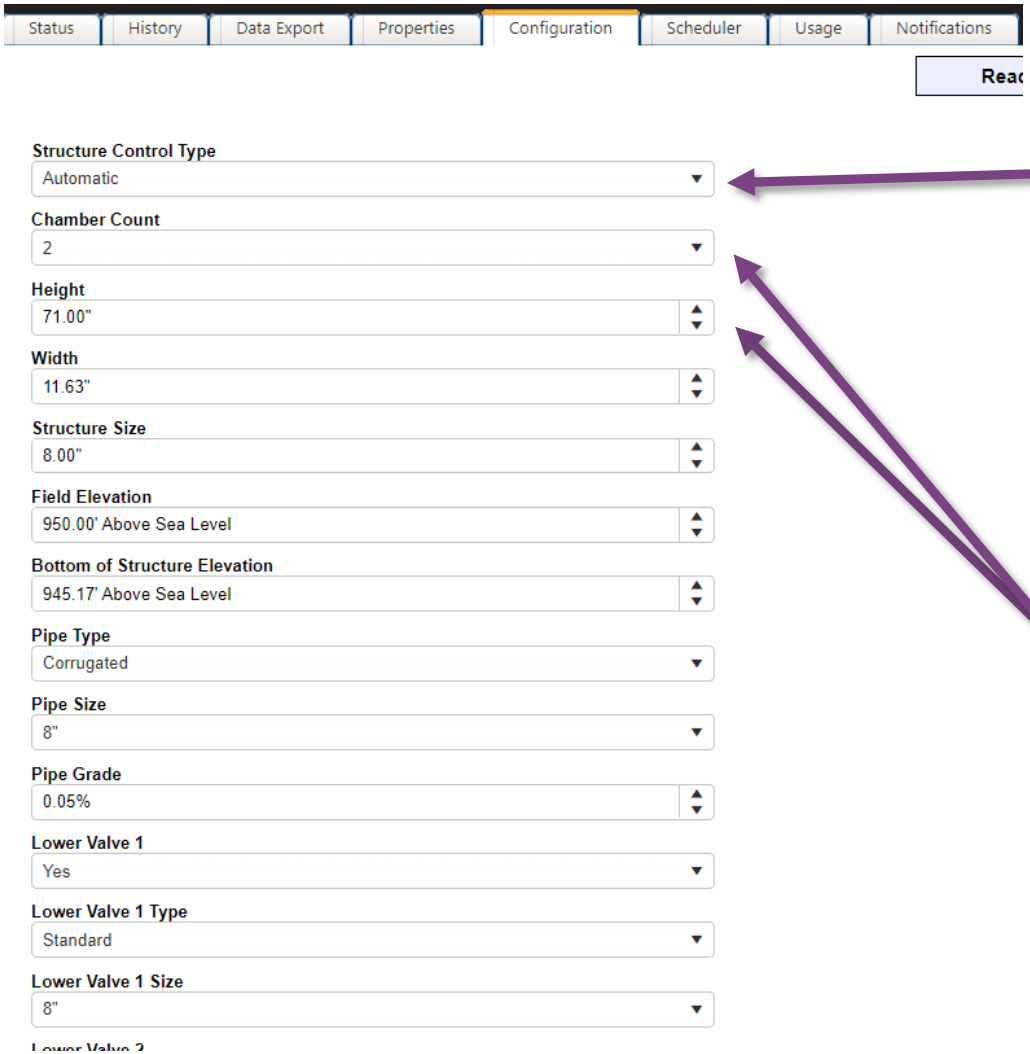
The configuration tab allows you to input details of your AWLCS system.



1) Use drop down menus to choose component types

2) Select system specific values

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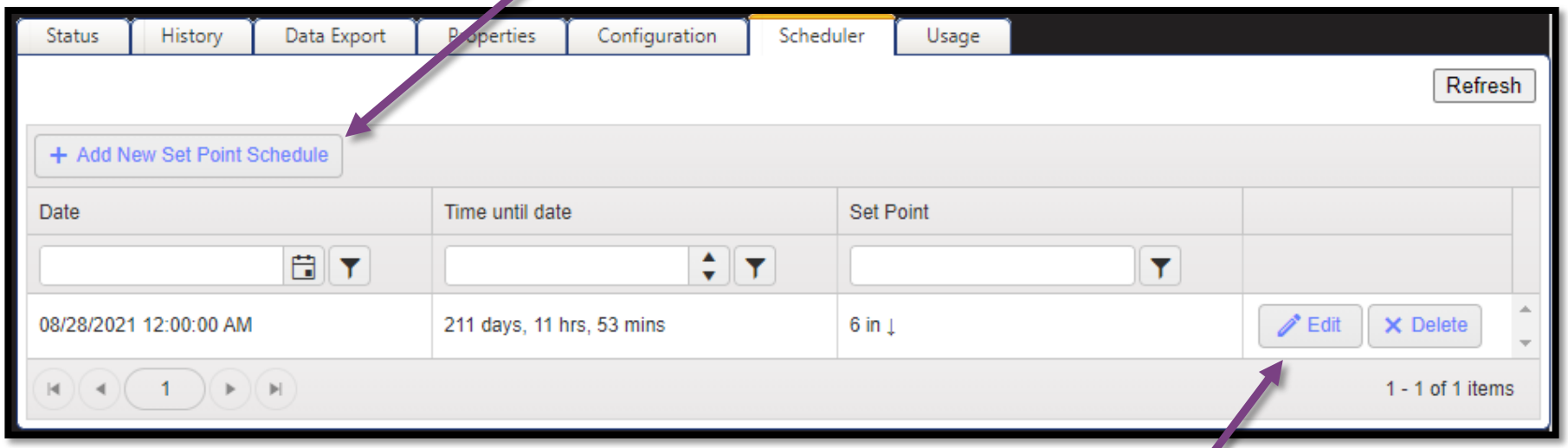
On the scheduler tab you can automate the system management.

1) Select to Add a new set point schedule



2) Choose to edit/delete an existing set point schedule

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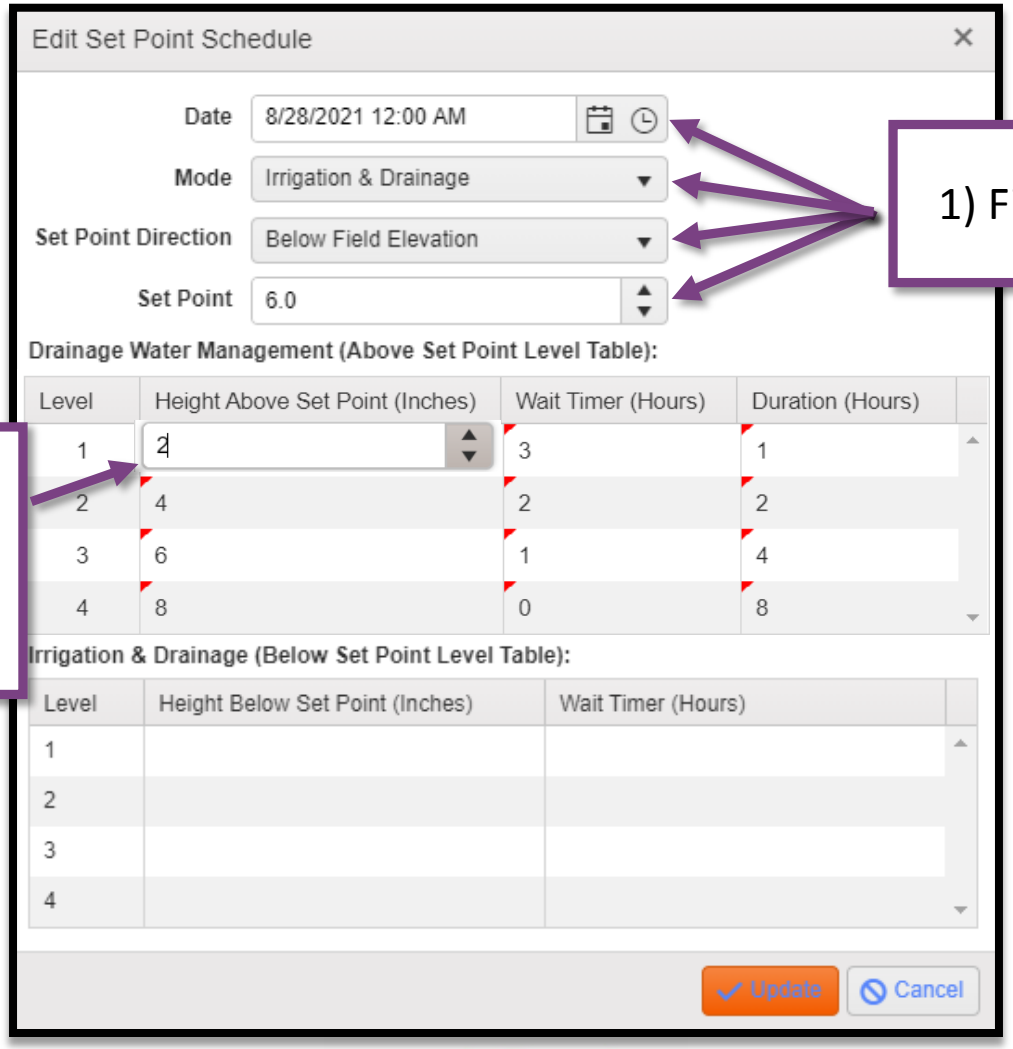
You can add or edit management set points and their schedule.



1) Fill all information

2) Select each cell and enter the appropriate levels and times

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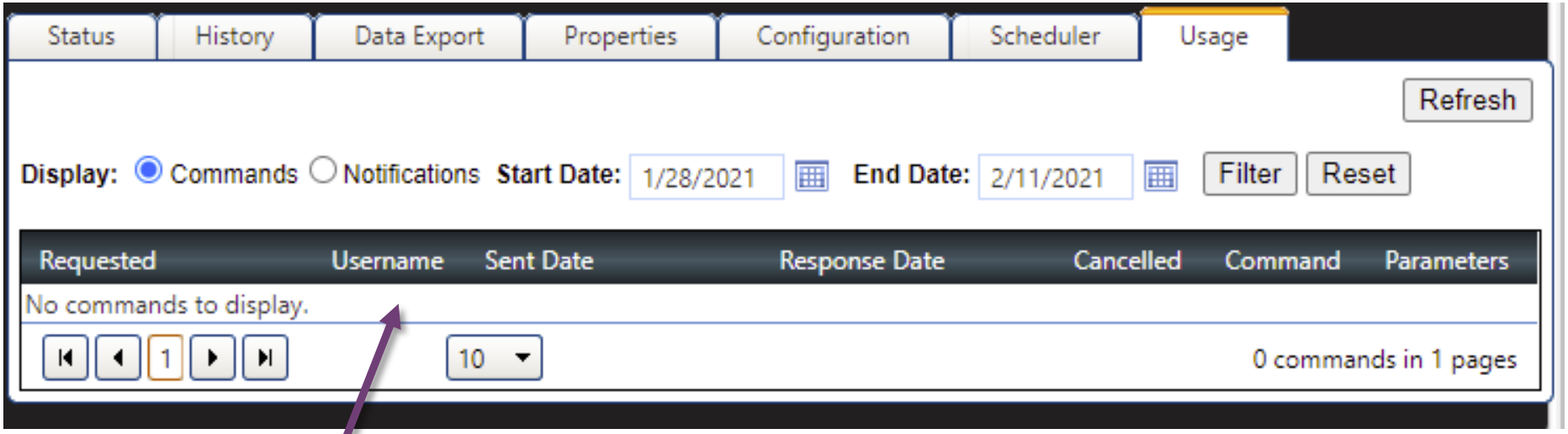
On the usage tab you can view the history of changes made to the AWLCS system.



1) History will appear here

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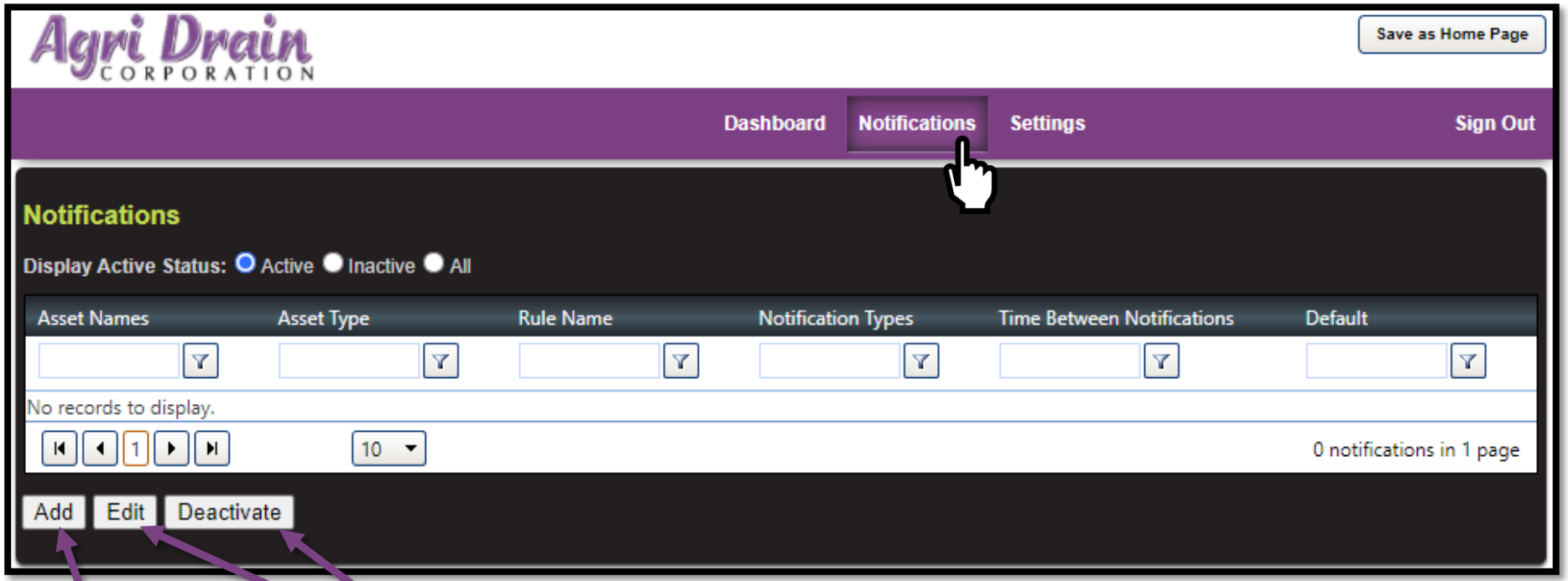
Select notifications to add, edit, or deactivate system alerts.



1) Select to Add a new notification

2) Choose Edit or Deactivate to make changes to an existing alert

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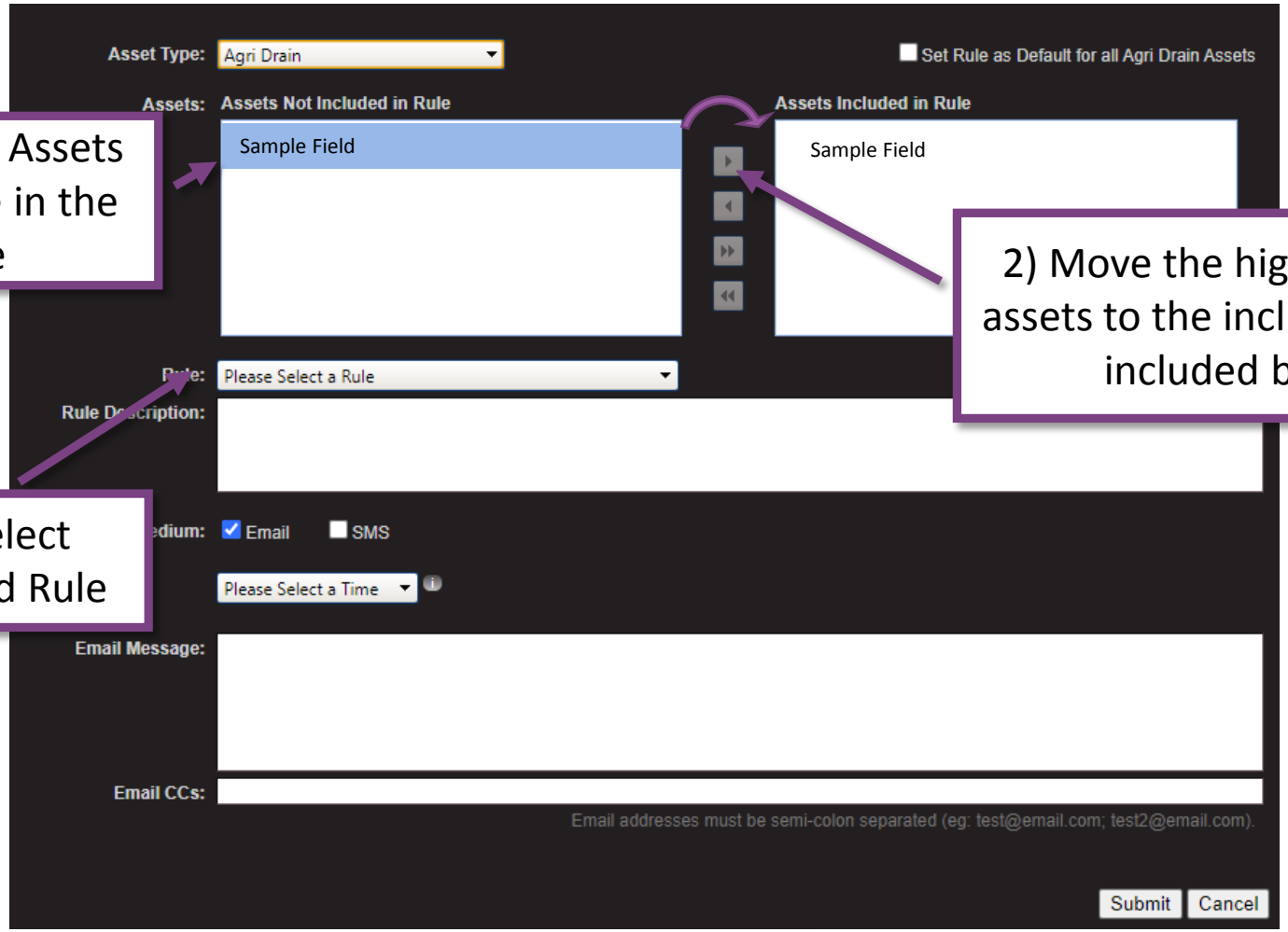
You define the conditions that will trigger a notification alert.



1) Choose Assets to include in the rule

2) Move the highlighted assets to the included/not included box

3) Select Desired Rule

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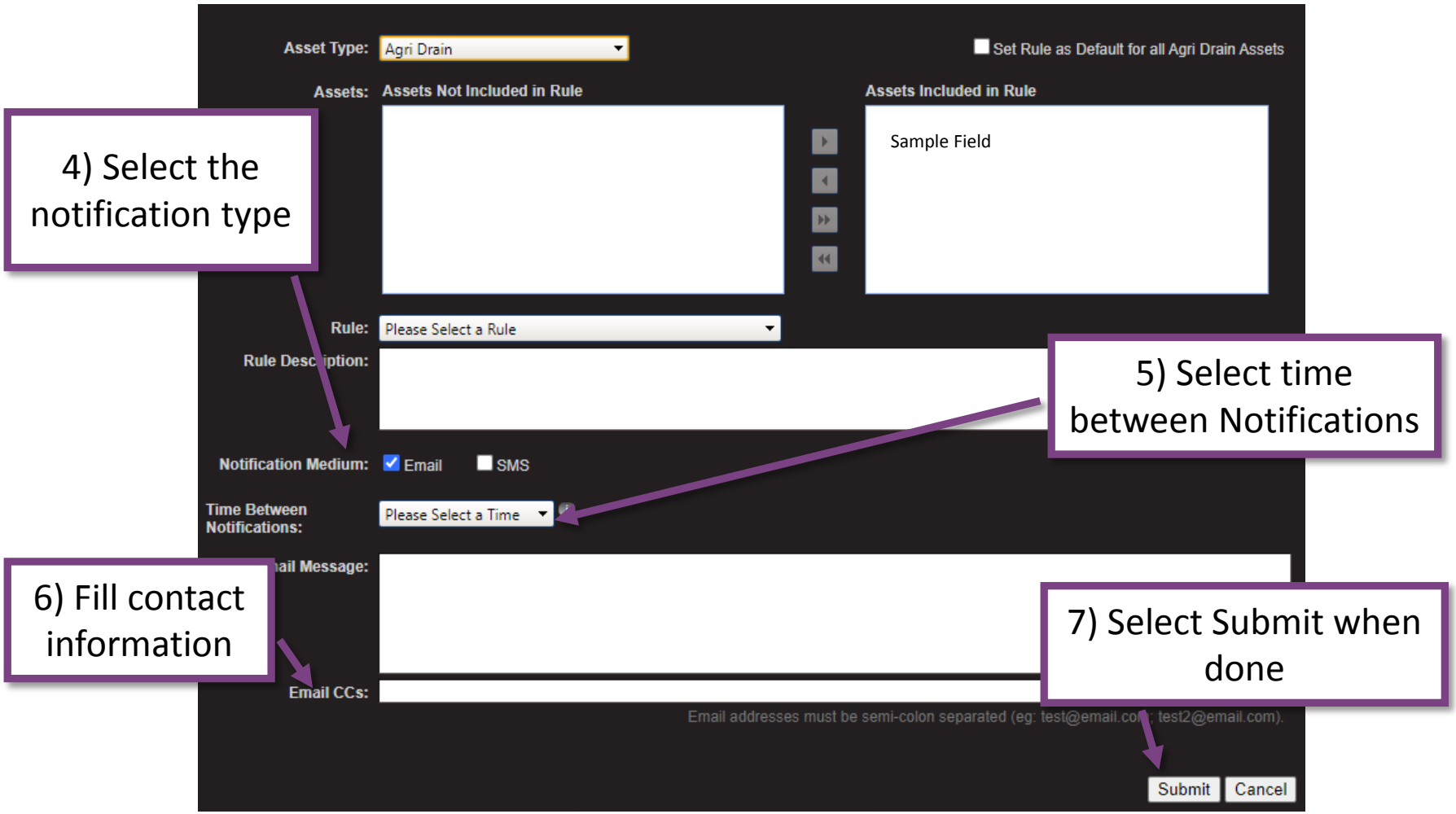
You define the conditions that will trigger a notification alert.



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Contact us today to learn more about our Smart Drainage System and our full line of water management products!

Phone: 800-232-4742

Web: www.agridrain.com

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