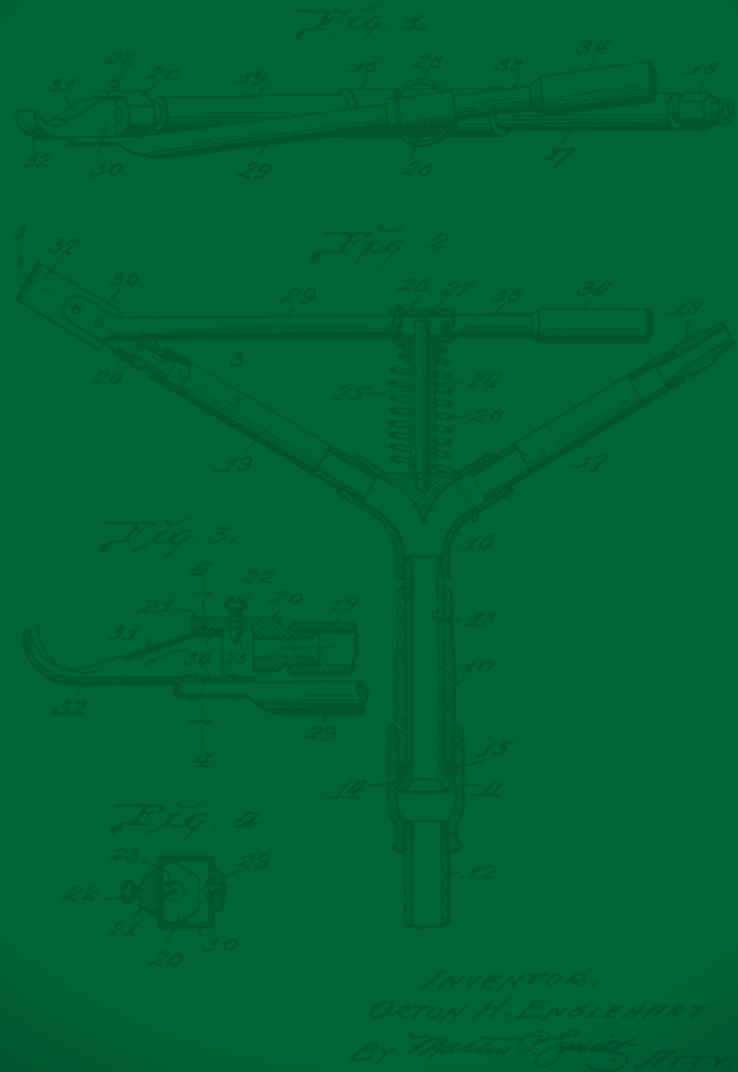



April 16, 1935.

O. H. ENGLEHART  
WATER SPRINKLER  
Filed Dec. 18, 1933

1,997,901



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**iQ4**

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**IQ4 - Dryrun™**

# IQ4 – Dryrun™

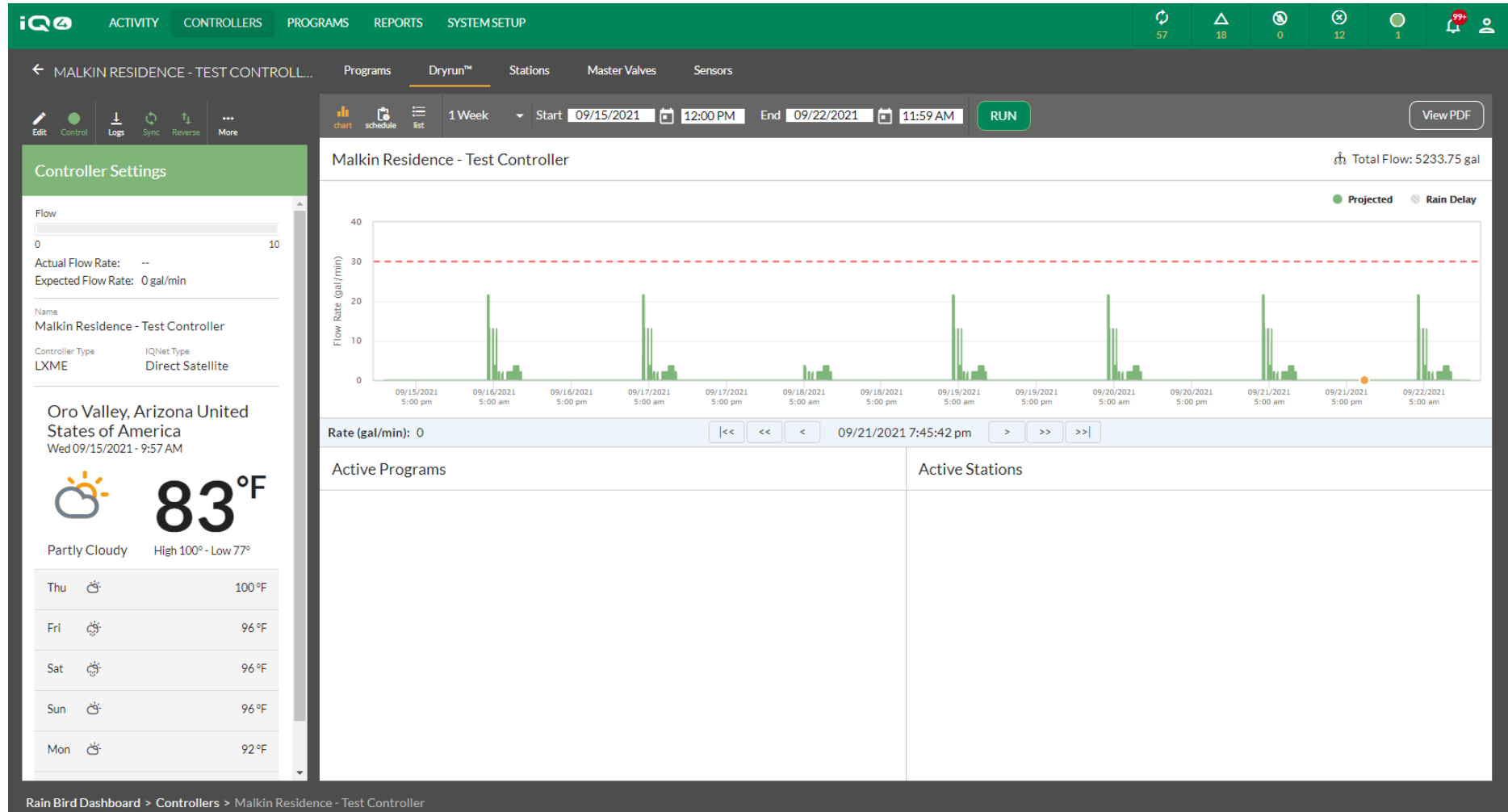
Dryrun™ is a feature that allows users to see projected irrigation

- Stations running at any one time
- Minute-by-minute flow rate
- Total water usage
- Overall program(s) duration runtime

The projection is available in three forms:

- Chart
- Schedule
- List

# IQ4 – Dryrun™



# IQ4 – Dryrun™

Setup items to complete before running Dryrun™

- Controller Setup
  - Flow Sensors
  - Master Valves
  - Stations
  - Programs
  - Controller Level SimulStations
  - FloManager
  - Controller parameters (Auto/Off, Auto Sync, Auto Retrieve, etc.)
  - Rain Delay

# IQ4 – Dryrun™

- Program Setup
  - Start time(s)
  - Day(s) of operation
  - Program Level SimulStations
  - ET Adjust, Program Adjust
- Station Setup
  - Flow rate(s)
    - Manual
    - Learned flow
  - Base Runtime(s)
  - Decoder/IVM addresses
  - FloZone assignments

# IQ4 – Dryrun™

## Run the Dryrun™

- Time Period
  - Select Chart, Schedule or List
  - Select 1, 3 or 7 days or
  - Select custom by day from 1 to 31 days
  - Click on Run

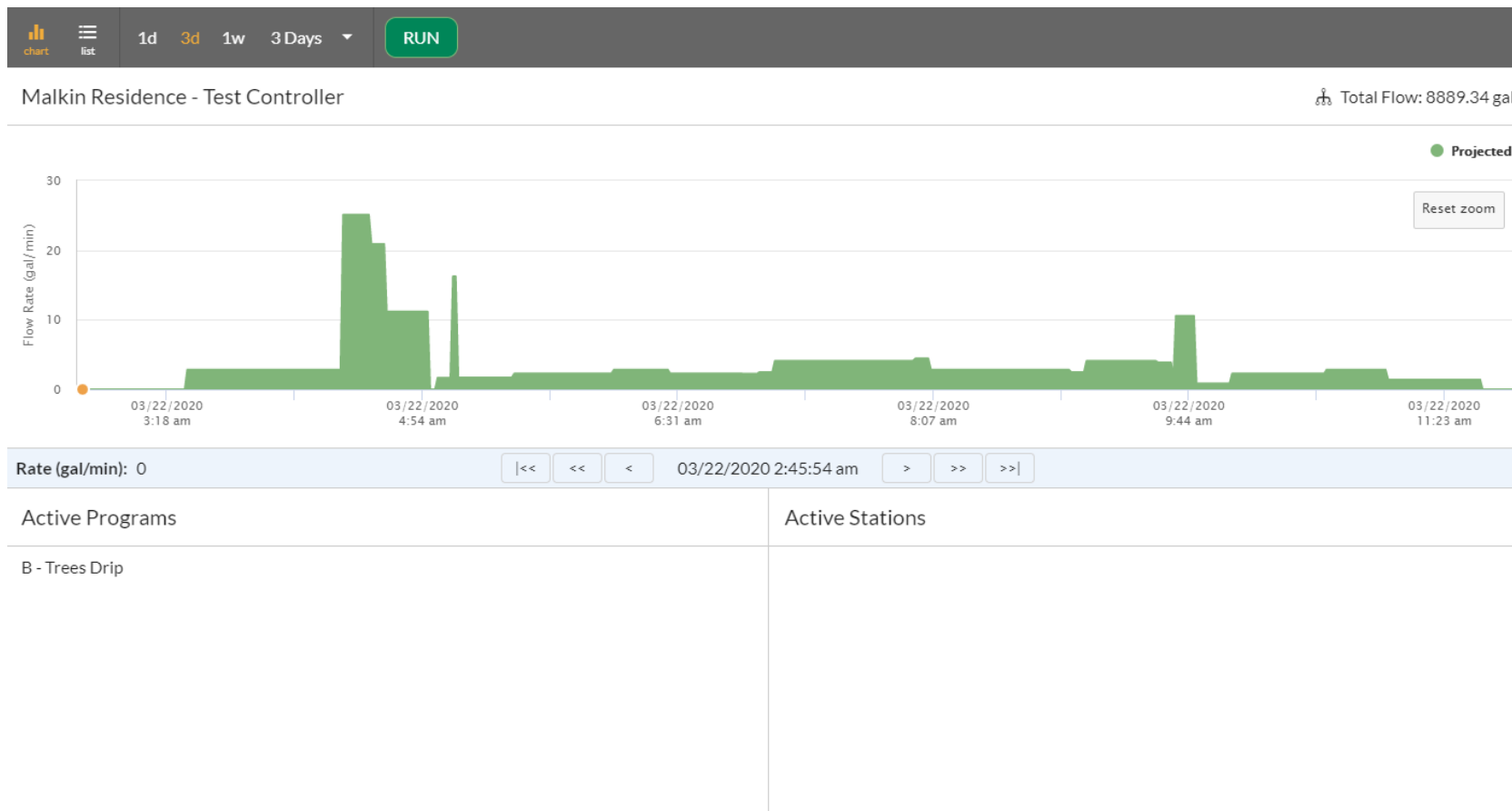
# IQ4 – Dryrun™

## Using the Dryrun™ Simulator

- The Dryrun™ Simulator is an interactive simulation of the projected program/station operation and flow of water over time. The simulation uses the selected controller's current configuration properties (including modules, flow rates, programs, etc.) to create an easy-to-understand, snapshot projected watering output. The Dryrun™ Simulator also allows you to interact with the simulation, giving you the ability to move a cursor to display system status at one minute intervals in time.

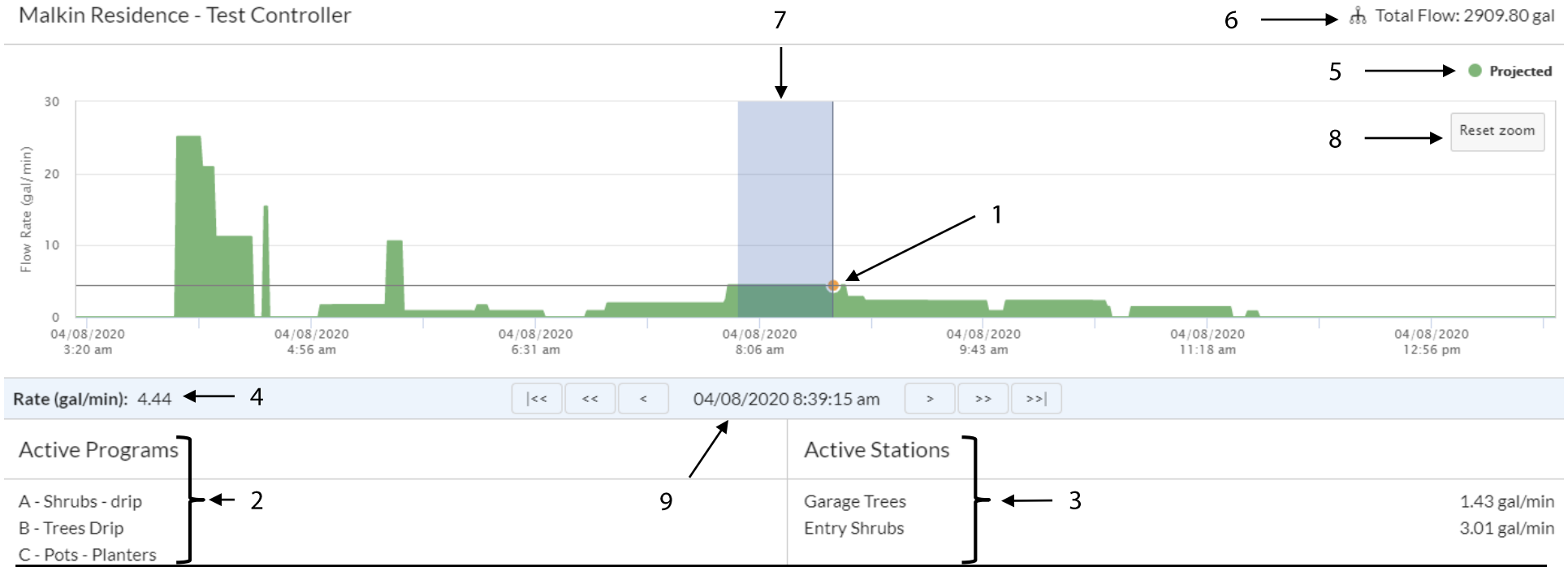
# IQ4 – Dryrun™

## Understanding the Dryrun™ Simulation display





## Malkin Residence - Test Controller



1.Pointer — Move the mouse pointer across the chart to display details in the status area at the bottom of the screen.

Tip: You can adjust the position of the pointer on the horizontal axis to one minute accuracy by using the Pointer Advance buttons to move the pointer.

2.Active Programs — Active Programs displays the programs running at the selected time

3.Active Stations — Active Stations displays the stations running at the selected time

4.Rate — When using the Pointer function, this line shows the current flow rate.

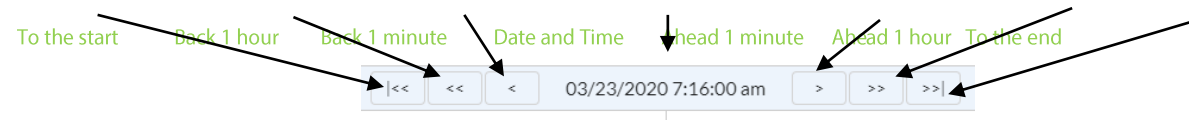
5.Projected -- The vertical height of the green bar(s) indicates the volume of water programmed to flow at the time directly below the bar on the horizontal axis.

6.Total Flow – displays the total projected flow for the original time period selected

7.Zoom – Click and hold the left mouse button while moving the pointer across the chart to zoom into a smaller time period

8.Reset Zoom – resets the zoom window to the original selected time period

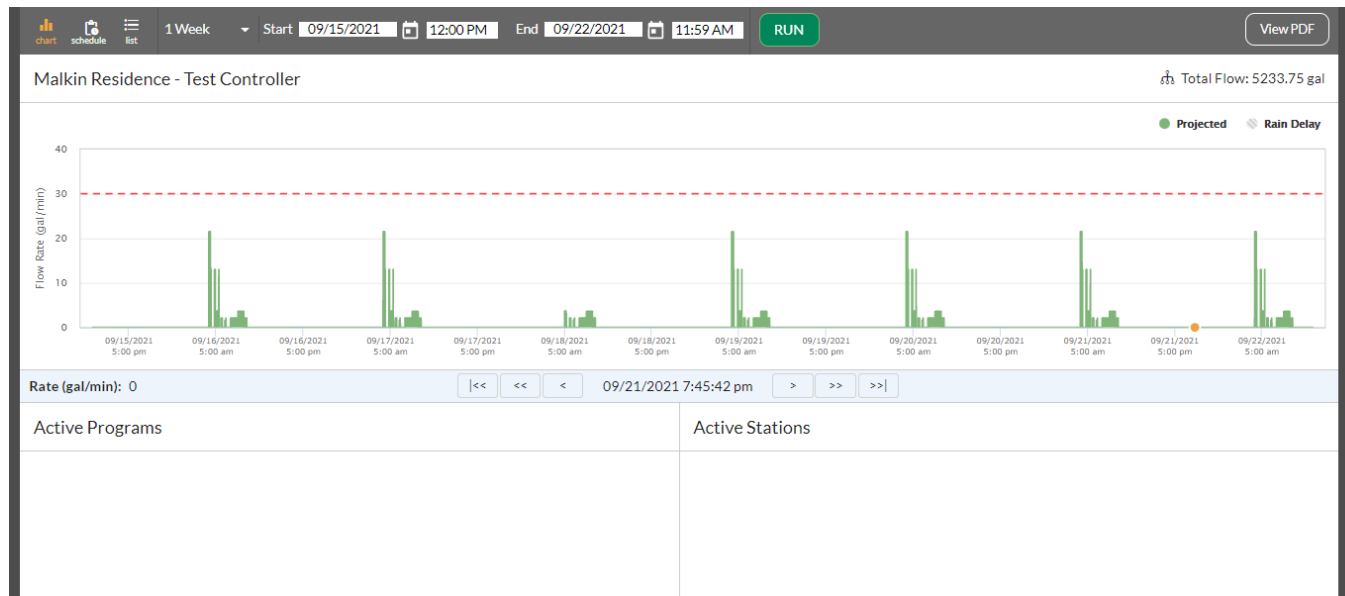
9.Pointer advance buttons — These buttons provide navigation along the time line with better resolution than using the mouse pointer alone. Each button moves the pointer either right or left along the time line in small increments.



# IQ4 – Dryrun™

## Dryrun™ display options

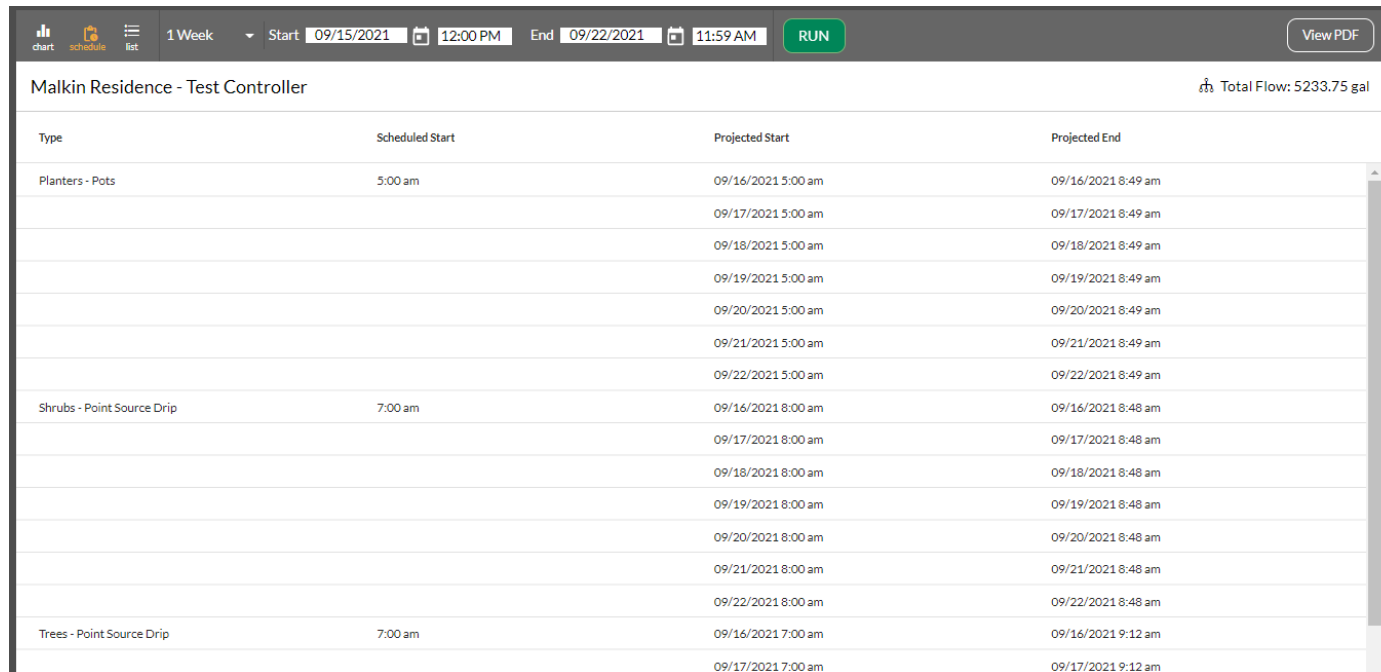
- Graph: displays a graphical presentation of forecast runtimes with details of which programs, stations, flow amounts and time duration with an easy-to-use Zoom feature



# IQ4 – Dryrun™

## Dryrun™ display options

- Schedule: displays in list format a forecast based on the irrigation type showing scheduled start, projected start for each day and projected end for each day



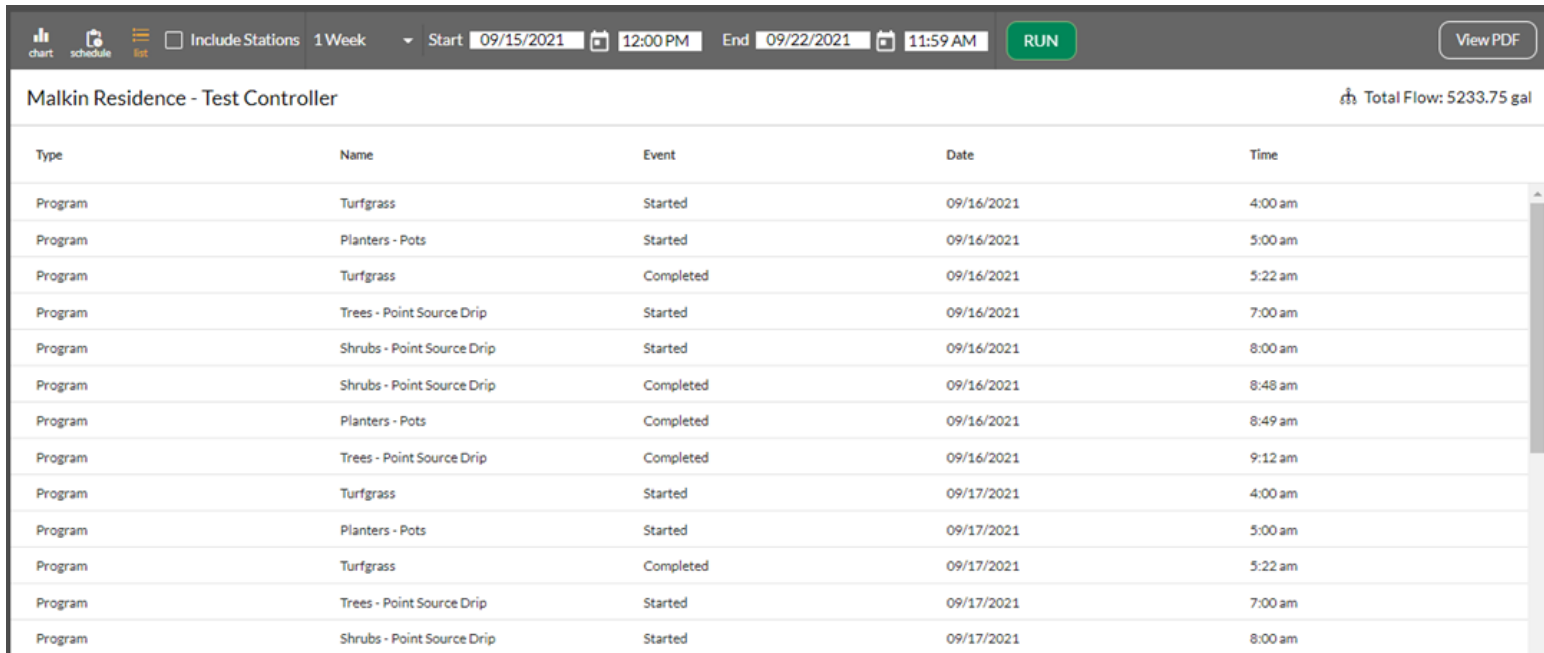
Malkin Residence - Test Controller Total Flow: 5233.75 gal

Type	Scheduled Start	Projected Start	Projected End
Planters - Pots	5:00 am	09/16/2021 5:00 am	09/16/2021 8:49 am
		09/17/2021 5:00 am	09/17/2021 8:49 am
		09/18/2021 5:00 am	09/18/2021 8:49 am
		09/19/2021 5:00 am	09/19/2021 8:49 am
		09/20/2021 5:00 am	09/20/2021 8:49 am
		09/21/2021 5:00 am	09/21/2021 8:49 am
		09/22/2021 5:00 am	09/22/2021 8:49 am
Shrubs - Point Source Drip	7:00 am	09/16/2021 8:00 am	09/16/2021 8:48 am
		09/17/2021 8:00 am	09/17/2021 8:48 am
		09/18/2021 8:00 am	09/18/2021 8:48 am
		09/19/2021 8:00 am	09/19/2021 8:48 am
		09/20/2021 8:00 am	09/20/2021 8:48 am
		09/21/2021 8:00 am	09/21/2021 8:48 am
		09/22/2021 8:00 am	09/22/2021 8:48 am
Trees - Point Source Drip	7:00 am	09/16/2021 7:00 am	09/16/2021 9:12 am
		09/17/2021 7:00 am	09/17/2021 9:12 am

# IQ4 – Dryrun™

## Dryrun™ display options

- List: displays in list format a forecast based on programs showing each programs start and completion time



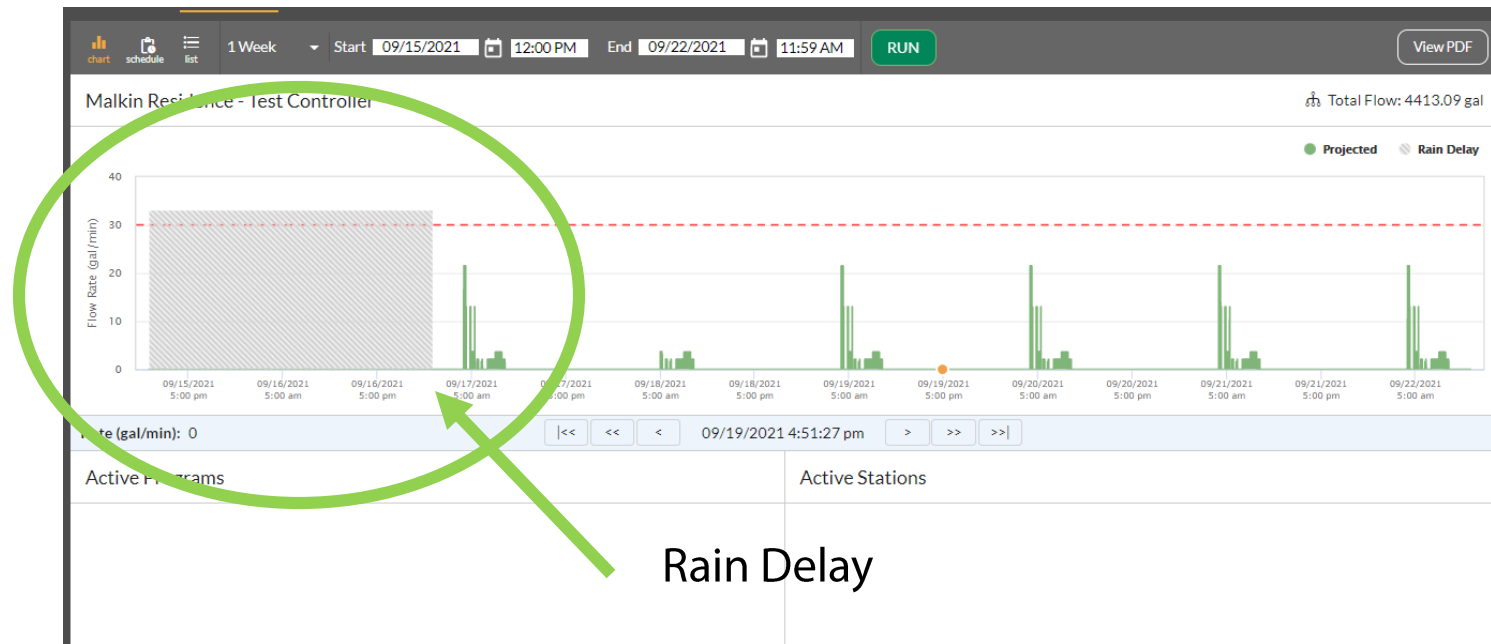
Malkin Residence - Test Controller Total Flow: 5233.75 gal

Type	Name	Event	Date	Time
Program	Turfgrass	Started	09/16/2021	4:00 am
Program	Planters - Pots	Started	09/16/2021	5:00 am
Program	Turfgrass	Completed	09/16/2021	5:22 am
Program	Trees - Point Source Drip	Started	09/16/2021	7:00 am
Program	Shrubs - Point Source Drip	Started	09/16/2021	8:00 am
Program	Shrubs - Point Source Drip	Completed	09/16/2021	8:48 am
Program	Planters - Pots	Completed	09/16/2021	8:49 am
Program	Trees - Point Source Drip	Completed	09/16/2021	9:12 am
Program	Turfgrass	Started	09/17/2021	4:00 am
Program	Planters - Pots	Started	09/17/2021	5:00 am
Program	Turfgrass	Completed	09/17/2021	5:22 am
Program	Trees - Point Source Drip	Started	09/17/2021	7:00 am
Program	Shrubs - Point Source Drip	Started	09/17/2021	8:00 am

# IQ4 – Dryrun™

## Dryrun™ with Rain Delay

- If there is a Rain Delay set, the Dryrun™ will take that into account and you will see a hash area



# IQ4 – Dryrun™

## Features

- Zoom
  - Click and hold the left mouse button and drag across the area to be expanded
  - Click on the Reset Zoom button in the upper left corner to reset it to the original time period selection
- Buttons
  - Allow scrolling in the displayed direction by minute, hour or go to the start/end
- Non-irrigation stations
  - Non-irrigation stations are not shown in the graphical display but are shown in the list display

# IQ4 – Dryrun™

Dryrun™ will use the last known weather forecast

## Notes

- IQ4 uses the same algorithms that are used in the controllers

# Frequently Asked Questions



# FAQs

## 1. Does Simple ET affect the Dryrun™?

Yes. Dryrun™ calculates the forecast with the latest weather information and will adjust the runtimes for programs set to Simple ET

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