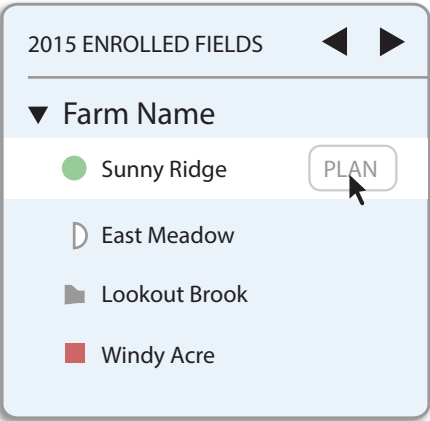


# Access Water Balance Plan from Navigation Panel



## Field Icon Color Coding

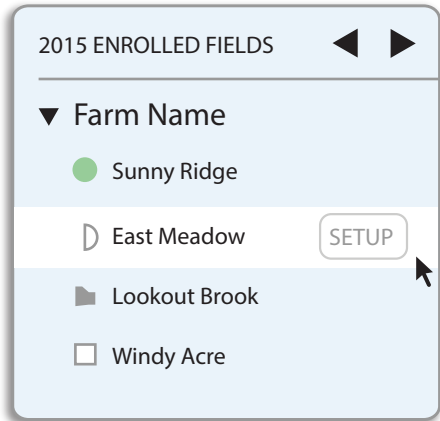
Fields that have not been set up, or which have a partially complete setup will have a grey outline and a white fill. Once a field is set up, if it does not have a probe in the ground, it will have a grey outline and white fill. Once data starts coming in from the probe, the icon and raster will use the refill alert colors.

## Field Button

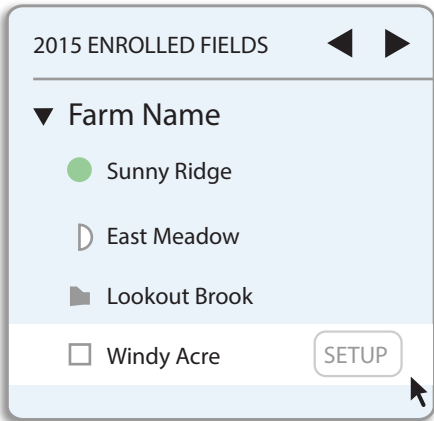
The button text of fields which have not yet been completely set up will read SETUP. The button text of fields which have been completely set up will read PLAN. If we are in the pre-season, with no probe in the ground, clicking the PLAN button will launch the pre-season plan. If we are in-season, clicking the PLAN button will launch the Water Balance Screen.

## Examples

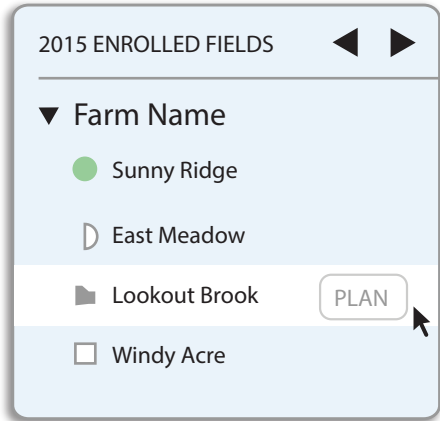
Field with untouched setup flow



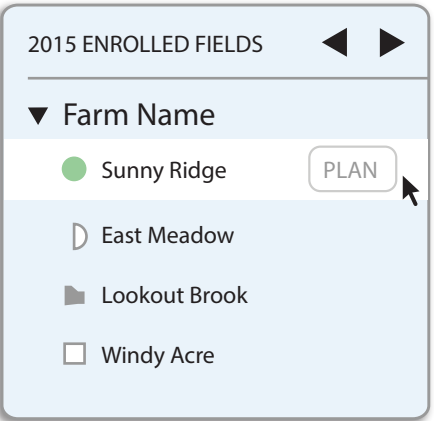
Field with partially complete setup flow.



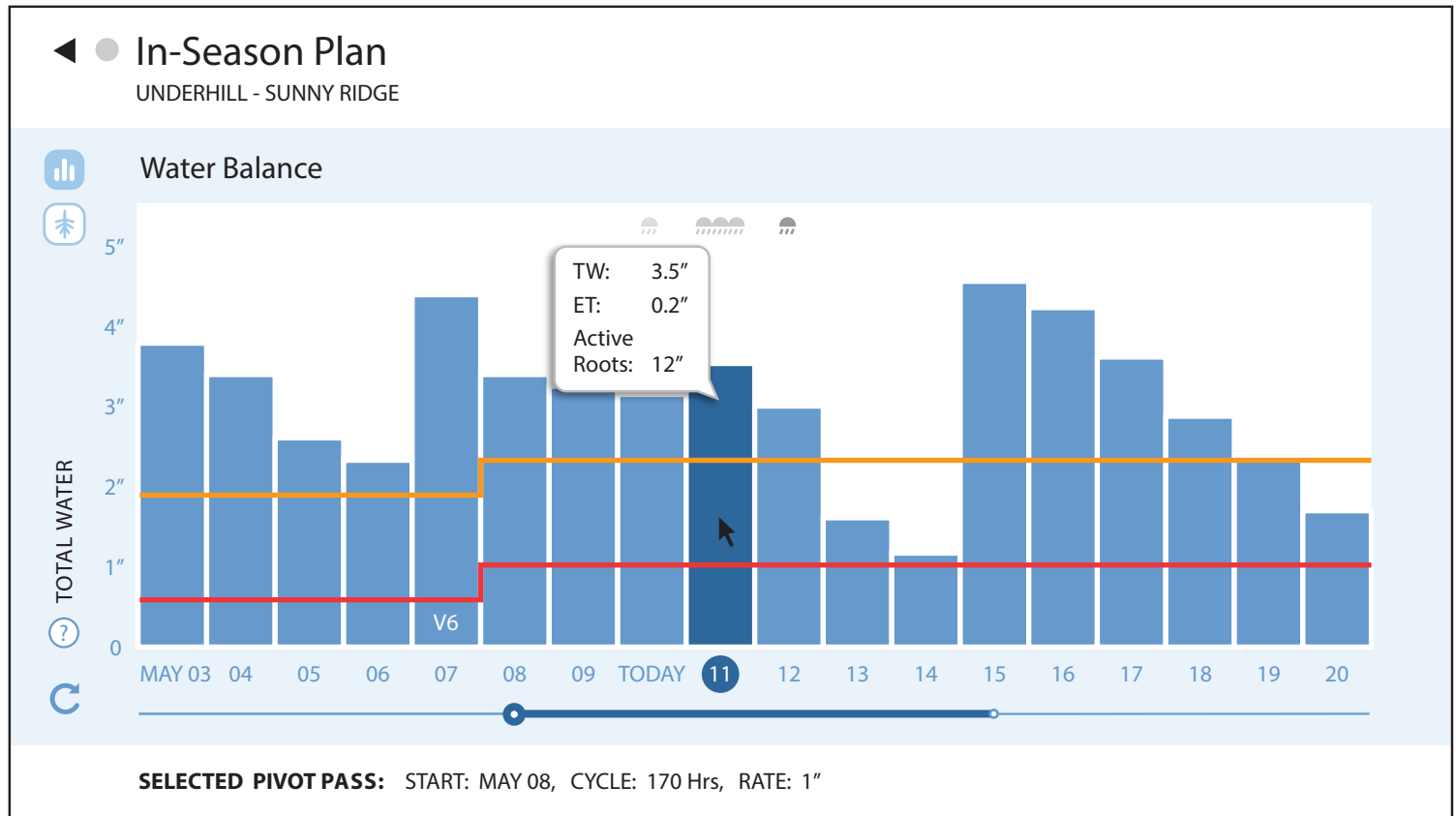
Set up field, during pre-season.



Set up field, in-season.



## In-Season Water Balance



## Chart Selection

The user can view either the Water Balance chart (bar chart) or the TW by Soil Depth chart (roots) by clicking the toggle icons near the upper right corner.

## Daily and Pivot Pass Metrics Selection

The user can view a day's metrics by clicking within the rectangular chart box, or below it on the pivot pass line. The selected date bar will darken and a bubble-shaped overlay panel will appear. The overlay panel will contain TW, ET, and Active Roots. The x-axis line marking the pivot pass which is (or will be, or was ) in progress during the selected day will also thicken and darken. The current day is the default selection.

## Allocation Meter

The allocation meter is not part of the first release of in-season planning, but empty space will be set aside for this widget in the upper right corner

## Pivot Pass Metrics Display

Pivot Pass stats appear below the bars. If the selected pivot pass is in the past, or is currently running, a marker will appear to the right, stating it is not editable. If the selected pivot pass is a future pass, this marker will become a button. Clicking the button will enable the edit mode.

### X-axis Markers

The month abbreviation for the first bar's day will appear under the first bar only. If a new month occurs within the 18-day range, the new month's abbreviation will appear underneath the bar for the first of the month.. The text TODAY will appear beneath the current day. A maturity marker will appear at the base of a bar when the maturity stage changes.

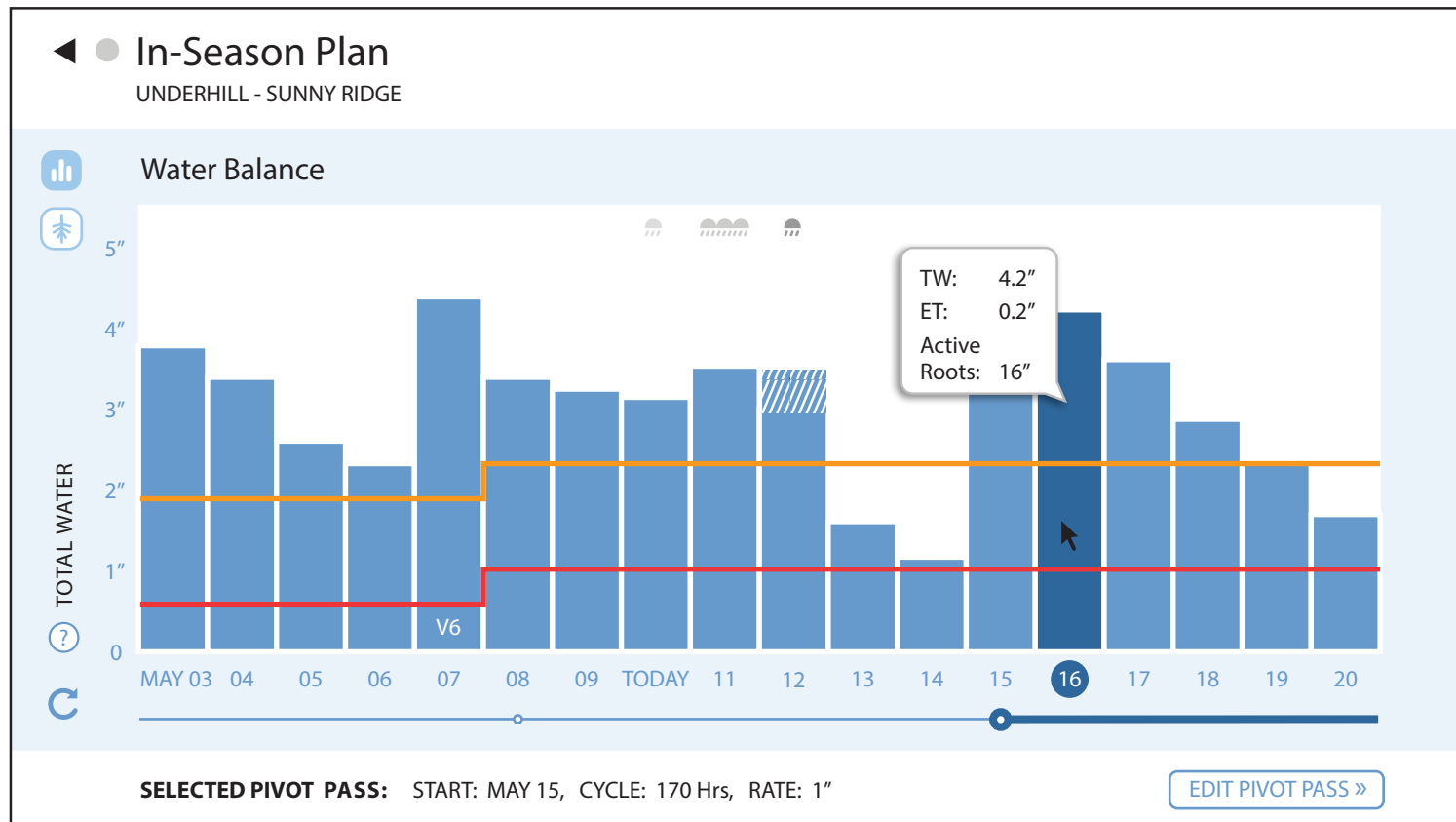
## Precipitation

Precipitation during a single day is indicated by the presence of a cloud icon in the area above the bar. The y-axis will always slightly exceed the maximum possible value for TW plus precip, so there will room above the bars for maturity and cloud markers. Note that the 5" y-axis mark is shy of the chart top. The chance of rain is hinted by the darkness value of the cloud icon. The amount of rain is hinted by the number of cloud icons (one, two or three) placed over a single bar. The user may click on the icon to display a small overlay with number values for percentage and amount of rain.

[illegible]

- TW
- PRECIP
- REFILL POINT
- STRESS POINT

## In-Season Selection of Future Pivot Pass



### TW Overlay

Note that the position of the TW overlay is not higher than last screen, even though the bar is taller. The overlay arrow is positioned at the center top of a bar element, unless the height would cause the overlay to obscure the precipitation area at the top of the chart. In that case, the overlay will be positioned as high as it can be, without obscuring the precip markers.

### Edit Button

Now that the user has entered a future pivot pass, a button appears that will enable editing

### In-Season Plan

UNDERHILL - SUNNY RIDGE

---

**Water Balance**

The chart shows total water usage over a 10-day period from TODAY to 20. The y-axis represents TOTAL WATER in inches, ranging from 0 to 5. A red horizontal line indicates a pivot pass rate of 1 inch per day. A blue bar highlights the selected pivot pass on day 16, with a tooltip showing:

- TW: 3.5"
- ET: 0.2"
- Active Roots: 12"

Weather icons at the top indicate rain on days 11, 12, and 13.

Date	Total Water (inches)
TODAY	3.1
11	3.5
12	3.5
13	1.6
14	1.1
15	3.2
16	4.2
17	3.6
18	2.8
19	2.3
20	1.5

#### Edit Future Pivot Plan

Pivot Pass Start: MAY 15

☒ Pivot Pass Cycle: 192 Hours  
☐ Pivot Pass Rate: 1"

Load Mgmt Start: MAY 08

Load Mgmt End: JUN 12

Load Mgmt Hrs/Day: 3

**SELECTED PIVOT PASS:** START: MAY 15, CYCLE: 170 Hrs, RATE: 1"

[« CANCEL EDIT](#)
[COMPARE PLAN »](#)

Once the user clicks the edit icon, the Daily Water Balance x-axis will horizontally shorten to display only the current day and the 10 day forecast. The calendar dates and pivot pass line will adjust accordingly.

Pivot Cycle and Rate are interdependent. Each is prefaced by a radio button that activates an input field around the selected value. The unselected value will not have an input field. The default selected value is Pivot Cycle. When the user edits the a value inside an input field, the value without an input field will update immediately. There is no white separator line between the Cycle and Rate lines

If the original plan looks like this, and the user wants to create a stop between pass #1 and pass #2



A break will be introduced. All future passes maintain rate and duration, but any irrigation that occurs beyond the end of the season will need to be truncated.



When the user is in edit or comparison mode, the soil depth chart will not be available, therefore the toggle in the upper left corner will not display.

In-Season Plan

UNDERHILL - SUNNY RIDGE

Water Balance

TOTAL WATER

?

↺

5"

4"

3"

2"

1"

0

TODAY

11

12

13

14

15

16

17

18

19

20

TW: 3.5"

ET: 0.2"

Active Roots: 12"

Pivot Pass Start:

MAY

15

☒ Pivot Pass Cycle:

192

Hours

☐ Pivot Pass Rate:

1"

Apply Cycle/Rate To:

THIS

EVERY

Pass

Load Mgmt Start:

MAY

08

Load Mgmt End:

JUN

12

Load Mgmt Hrs/Day:

3

SELECTED PIVOT PASS: START: MAY 15, CYCLE: 170 Hrs, RATE: 1"

<< CANCEL EDIT

COMPARE PLAN >>

Once an entry field for either Cycle or Rate has been changed, another line, "Apply Cycle/Rate To", will appear. This line does not appear if the user only edits Pivot Pass Start or the Load Mgmt values.

PASS 1      PASS 2      PASS 3      PASS 4      PASS 5      END OF SEASON

A horizontal timeline diagram with five points marked by circles. From left to right, the points are labeled: PASS 1, PASS 2, PASS 3, PASS 4, and END OF SEASON. The segment between PASS 2 and PASS 3 is highlighted with a thick blue line, while the other segments are thin blue lines.

A horizontal timeline with five points labeled PASS 1, PASS 2, PASS 3, PASS 4, and PASS 5, followed by END OF SEASON. A thick blue bar highlights the interval between PASS 2 and PASS 3.

PASS 1      PASS 2      PASS 3      PASS 4      PASS 5      PASS 6      END OF SEASON

PASS 1 PASS 2 PASS 3 PASS 4 PASS 5 PASS 6 PASS 7 PASS 8 PASS 9 PASS 10 PASS 11 END OF SEASON

# In-Season Comparison

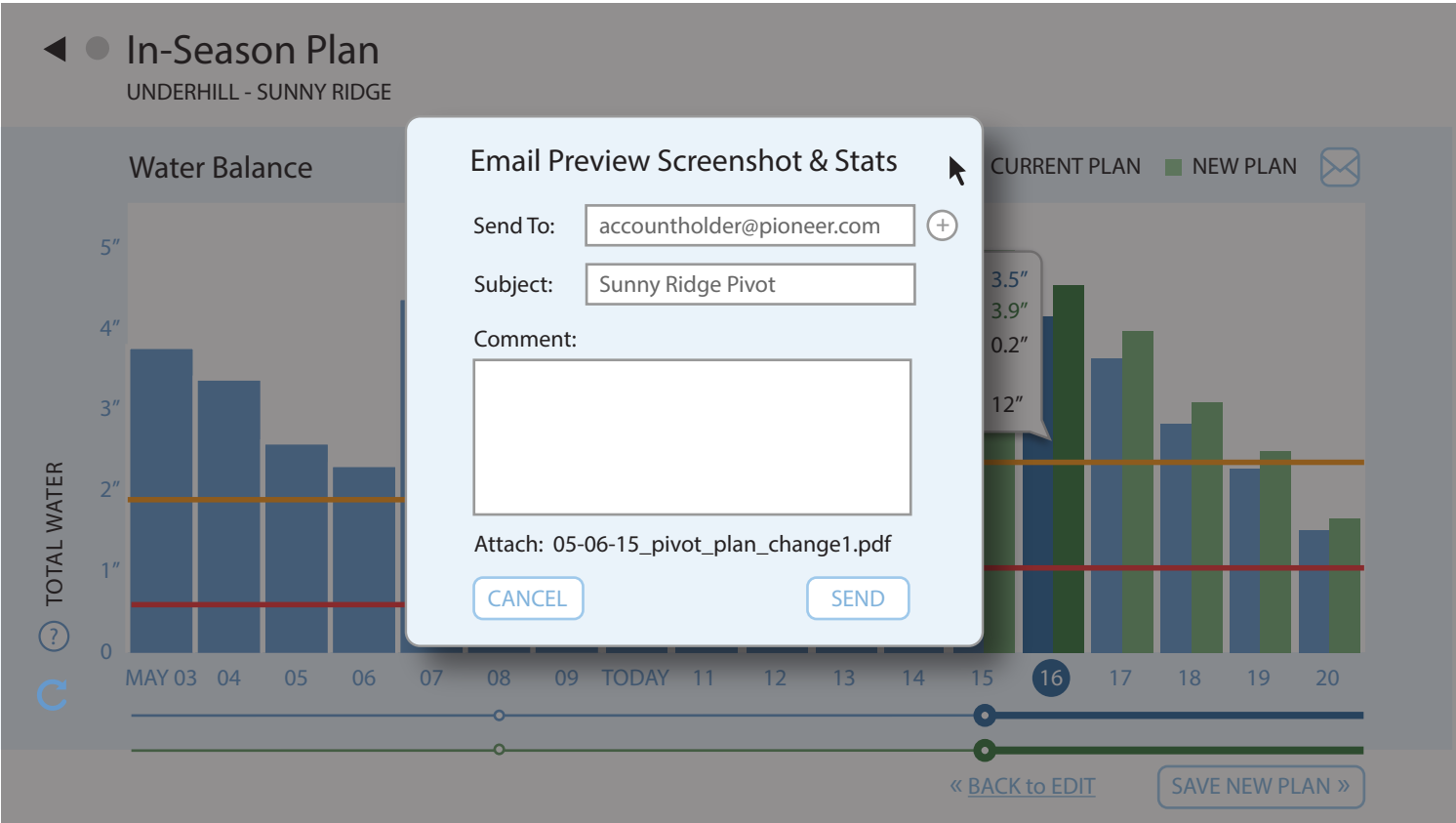


## Expansion Button

The expansion button hides the editing fields and brings the 7-day history back into view.

The editing fields will return if the user clickc the collapse button in the upper right corner.

# In-Season Email



## Email Panel

If the user clicks the email button, an overlay pops up, and the screen beneath the overlay will dim. The overlay allows the user to send a screenshot of the plan preview, plus a comment, to one or more recipients. The first recipient field is pre-populated with the account-holder's email address. If the account holder wants to add another recipient, he/she must click the encircled plus icon, which will add another entry field below the first. The number of permissible entry fields is five, after which the plus-icon will vanish. The subject line value will be pre-populated with the field name concatenated with the text "Pivot". The attachment name is defaulted as the date, concatenated with "\_pivot\_plan\_change", appended with a numeral, in case the account holder sends more than one preview per day.

The .pdf will include a screen shot of the comparison bar chart, as well as full stats for the current plan vs. the new plan, including any load balancing changes.

The user must click SEND to send the email. If the user decides to cancel out of the email flow, he/she may click cancel, or click outside the overlay.