Valley Irrigation
Run Time App Version 1.1
User Guide

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Valley Irrigation Run Time App

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Specifications, descriptions and illustrative material contained herein were as accurate as known at the time this publication was approved for printing.

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Introduction

The Valley Irrigation Run Time application provides users a tool to keep track of pivots on their farm. This app allows growers to:

- Maintain a list of all the pivots on the farm – no matter what brand
- Keep track of which pivots are currently running an irrigation cycle
- Calculate estimated run time for each pivot
- View remaining run time for any pivot currently running
- Receive a notification when the timer for an irrigation cycle of a running pivot has elapsed
- Keep a log of when each pivot last ran and any notes collected about the irrigation cycle or the pivot

This app does not communicate with pivot control panels or devices in the field for remote monitoring and control.

Getting Started

The Valley Irrigation Run Time app is available for any user with a smart device that uses an Android or iOS operating system. Get started by downloading the Valley Irrigation Run Time app from the Apple App Store or Google Play.

Operations and information from this app are stored on the local device that the app is downloaded to. Therefore, the app may be used offline or when away from cellular signal. Time zone, date and language within the app will default to the device settings.

Since this app does not provide any remote monitoring, and cannot communicate with a device on the farm, no additional hardware or setup is required outside the app.

Valley Irrigation Run Time App

Main Screen

List View

The List View is the main screen for the Run Time app and organizes pivots under two categories:

Running Pivots – Pivots will appear here when they are in a running state.

Pivot List – This is a user-created list of pivot devices that are on the farm or under the management of the app user. Pivots in this category are not running.

Pivots will move from the Pivot List to the Running Pivots list when they enter a running state. When they are no longer in a running state, they will return to the Pivot List.

Refer to Managing the Pivot List on page 8 for more details.

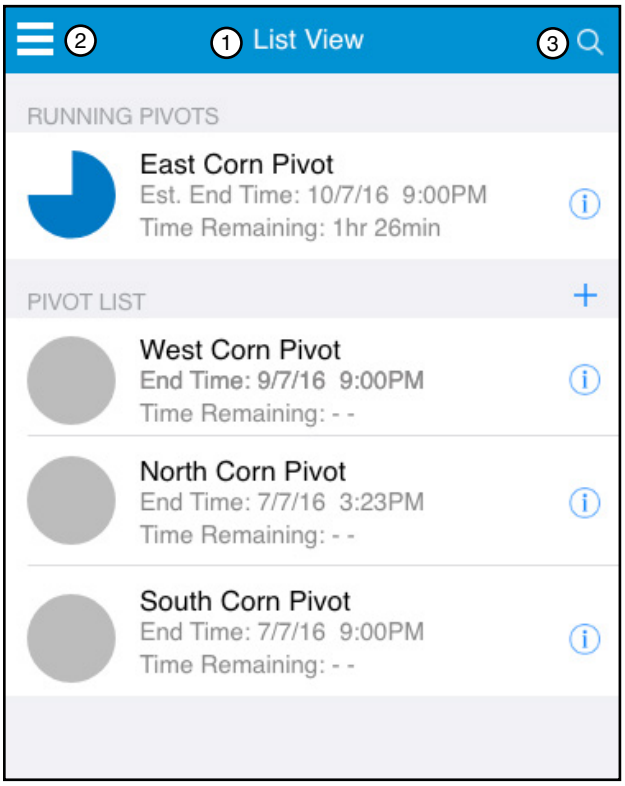


Figure 4-1

Menu

This menu contains navigation to Settings, About and Help. See Menu on page 5 for further details.

Search

Use this to search for pivots in the Pivot List by criteria found in the Pivot Name.

Icons, Toggles and Buttons

Information

Use this to display information about a specific device.

Add

Use this to add information. The type of information that can be added depends on which screen is displayed..

Arrow

Use this to select and open screens to view additional information.

Toggle

Use this to enable (on) or disable (off) app features and options.

Enable (on) Disable (off)

Run

Use this to set a stopped pivot to Running.

Run or Run

Stop

Use this to set a running pivot to stopped.

Stop or Stop

Cancel

Use this to close a screen without saving changes.

Done

Use this to close a screen and save changes.

Cancel Pivot Information Done

Menu

Settings

Preference settings for use within the Run Time app. See Settings on the next page for further details.

About

Information about the Run Time app including a link to valleyirrigation.com, current installed app version, and release notes about new features for the version. See About on the next page for further details.

Help

Resources for help using the Run Time app including an email contact and link to the Run Time App User Guide. Refer to Help on page 7 for more details.

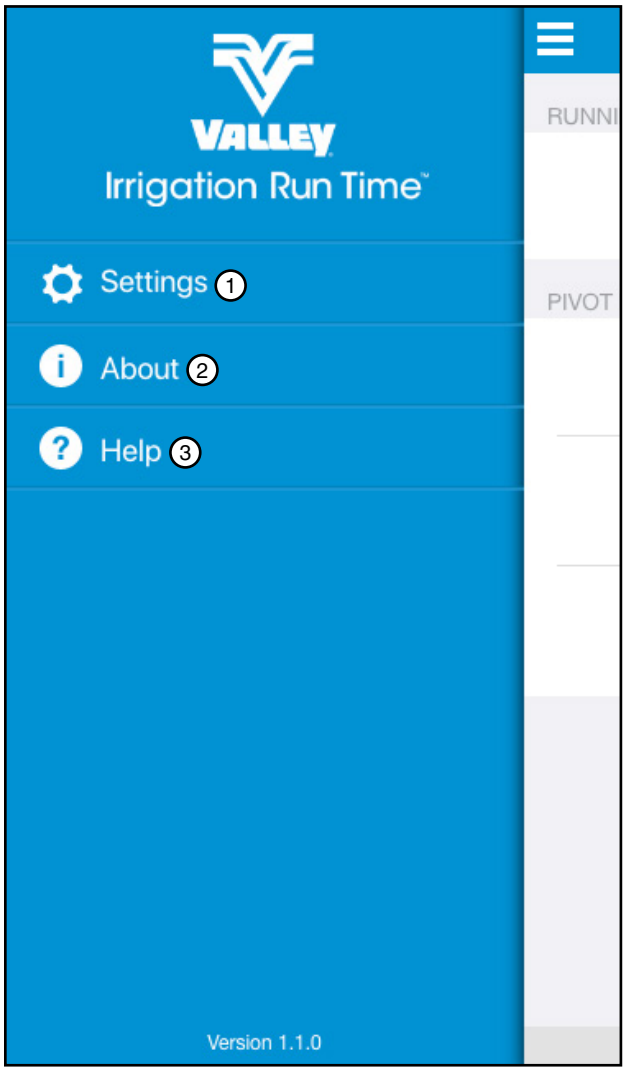


Figure 5-1
1. Settings
2. About
3. Help

Settings

Units of Measure

The app will default to US Standard units of measure. To change the app measurements to metric data:

1. Select **Menu**.
2. Select **Settings**.
3. Enable the toggle next to **Use Metric Data**.
4. Click **Done**.

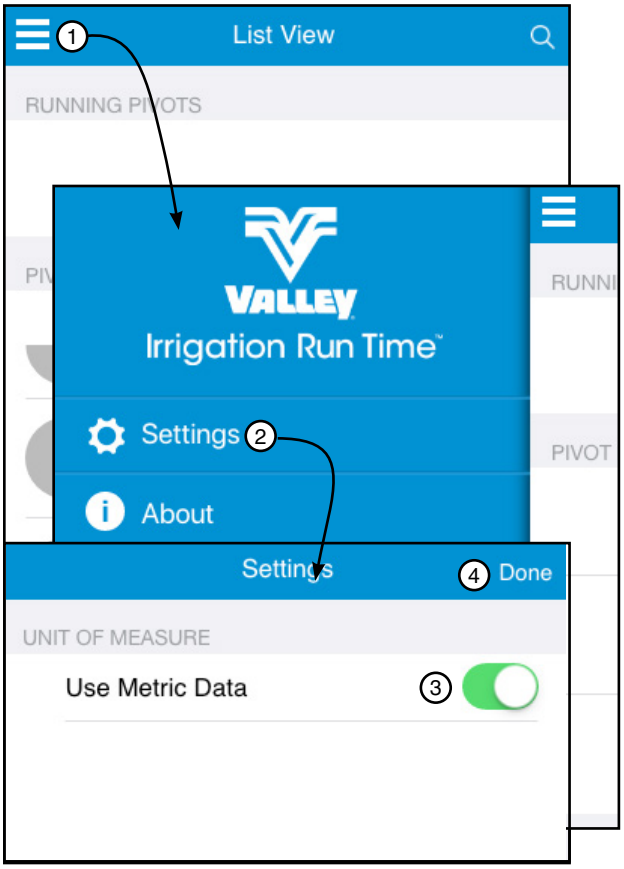


Figure 6-1

About

The About screen is shown in Figure 7-1.

Web

Website link to the developer information, Valley Irrigation.

Release Notes

Information about the features available for releases of this app.

Help

The Help screen is shown in Figure 7-2.

Contact Us

Contact the support team via email for help with the Run Time app:

runtimehelp@valmont.com

Instructions

Links to websites, videos ad documents that provide information and help on using the app.

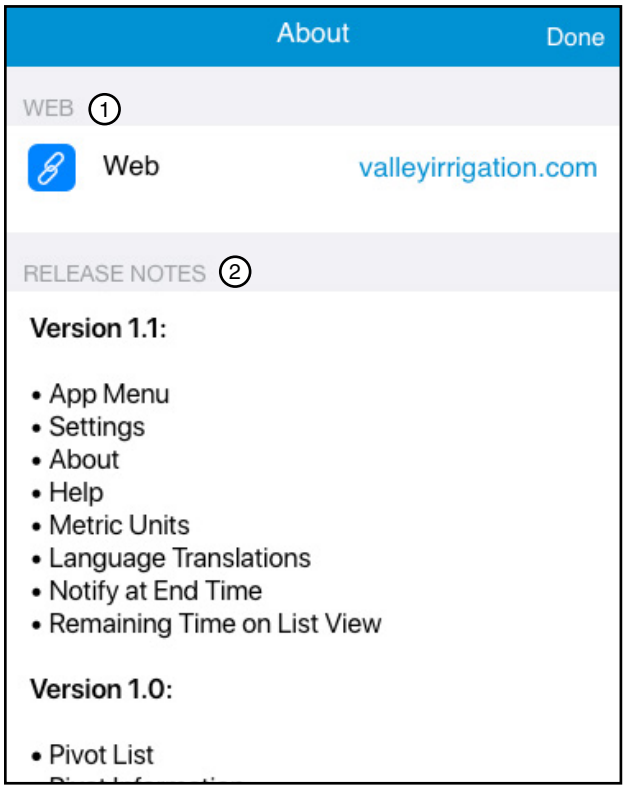


Figure 7-1
1. Web
2. Release Notes

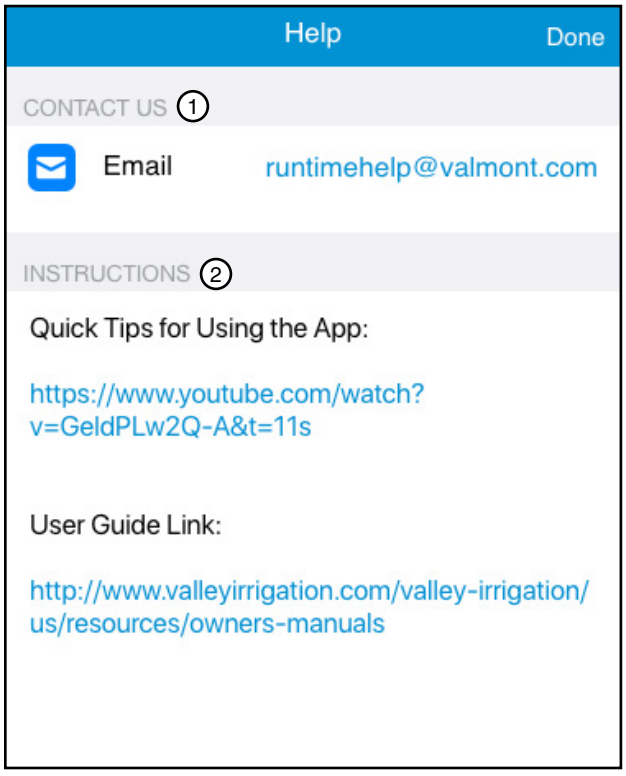


Figure 7-2
1. Contact Us
2. Instructions

Managing the Pivot List

How to add a device to the pivot list

1. Select the + add icon above the Pivot List.
2. Enter the Field Information, details about the pivot including:
   - **Pivot Name**
   - The **Start Angle** and **End Angle** for the irrigation cycle.
   - The default **Direction** that the machine travels.
3. Enter attributes about this pivot including:
   - **Pivot Type** (brand of the pivot).
   - **Panel Type** (model of the control panel if it's a Valley pivot).
   - **Crop Type** for this field.
4. Next, enter the following Sprinkler Chart Constants:
   - **Minimum Hours Per Revolution**
   - **Minimum Application**

   These values can also be found in the pivot control panel constants and should match for adequate calculation.
5. Scroll down to the Notifications section.
6. **To Notify at End Time**, enable the toggle.

   Enabling will allow a user to receive a notification on the mobile device that the app is downloaded to when the cycle completes.

   In order for app notifications to function, the Apple or Android device must have notifications enabled in the app settings.

   This setting will be retained for this pivot device until changed and will apply to each run cycle.
7. **Entering the device information is complete, do one of the following:**
   - To set this device to running, continue with Optional: How to set as running from Pivot Information screen on page 12.
   - To save this device without running, click **Done**.

     The pivot will appear in the Pivot List. Repeat these steps to add additional pivots to the list.

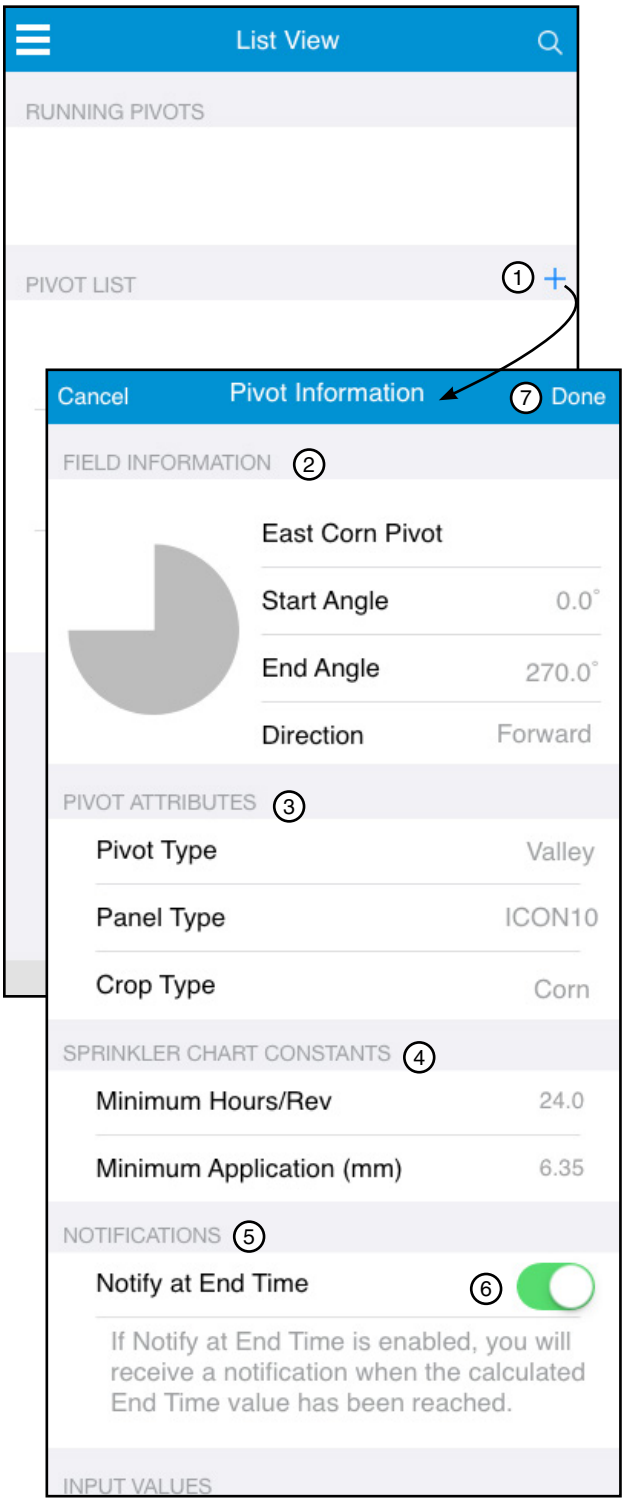


Figure 8-1

Managing the Pivot List

How to delete a pivot from the pivot list

1. Select the ⓘ information icon on the device to navigate to the Pivot Information screen.
2. Scroll down to the bottom of the Pivot Information screen.
3. Select **Delete Pivot**.
4. To save this change, click **Done**.

   The pivot will disappear from the Pivot List.

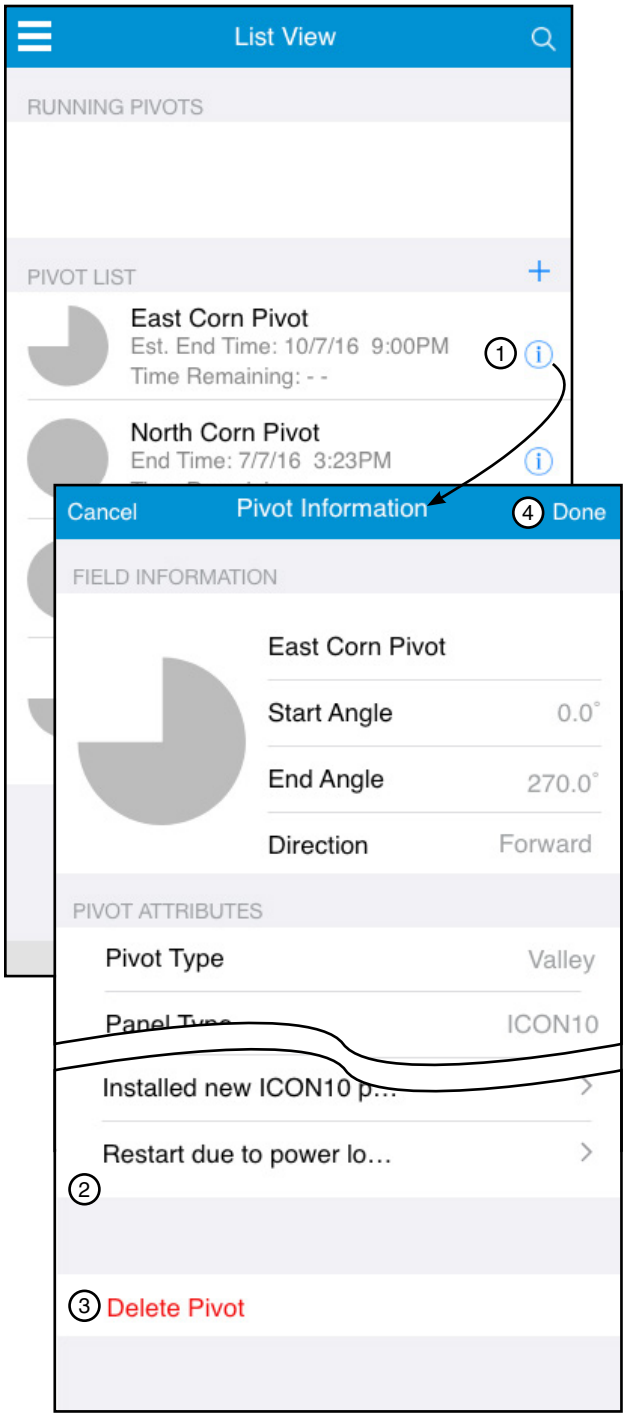


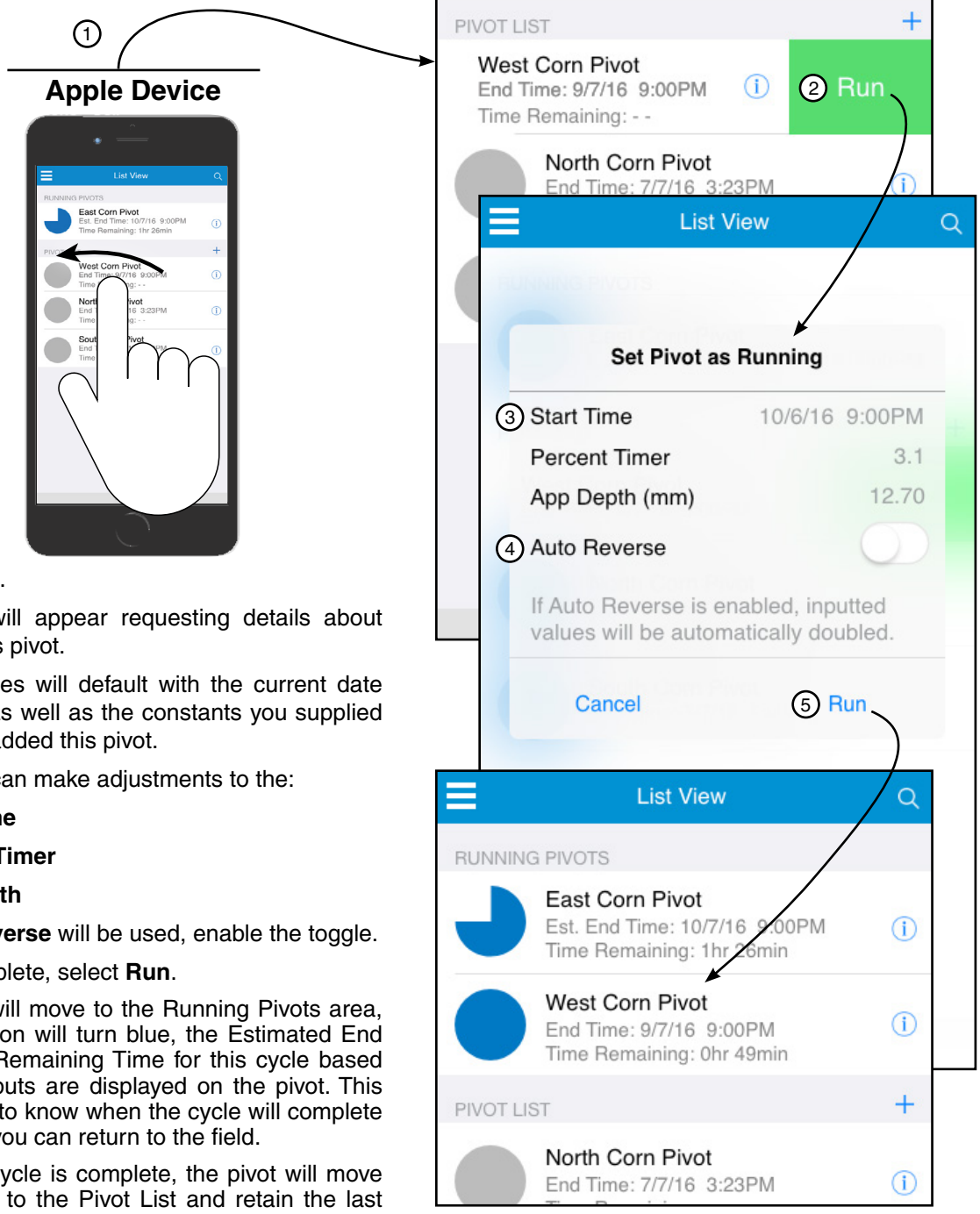
Figure 9-1

Managing Pivot Run Cycles

How to set a pivot as running

Apple Device

1. From the List View, locate the pivot that will be set to running, and then do the following:.
   - For **Apple** devices, swipe left on the pivot you would like to run. A green Run button will appear.



2. Select **Run**.
3. A popup will appear requesting details about running this pivot.

   These values will default with the current date and time, as well as the constants you supplied when you added this pivot.

   Here, you can make adjustments to the:

   - **Start Time**
   - **Percent Timer**
   - **App Depth**
4. If **Auto Reverse** will be used, enable the toggle.
5. When complete, select **Run**.

   The pivot will move to the Running Pivots area, the pivot icon will turn blue, the Estimated End Time and Remaining Time for this cycle based on your inputs are displayed on the pivot. This allows you to know when the cycle will complete and when you can return to the field.

   Once the cycle is complete, the pivot will move back down to the Pivot List and retain the last cycle End Time.

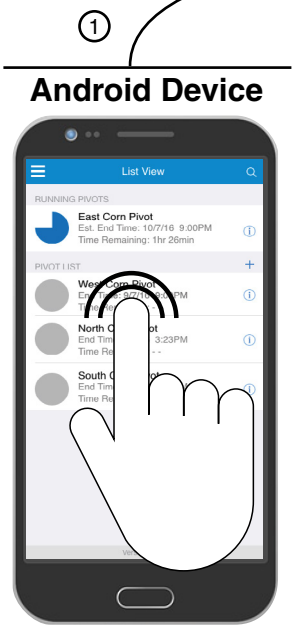
Figure 10-1

Managing Pivot Run Cycles

How to set a pivot as running

Android Device

1. From the List View, locate the pivot that will be set to running, and then do the following:
   - For **Android** devices, press and hold the pivot and a Run button will appear.



2. Select **Run**.
3. A popup will appear requesting details about running this pivot.

   These values will default with the current date and time, as well as the constants you supplied when you added this pivot.

   Here, you can make adjustments to the:

   - **Start Time**
   - **Percent Timer**
   - **App Depth**
4. If **Auto Reverse** will be used, enable the toggle.
5. When complete, select **Run**.

   The pivot will move to the Running Pivots area, the pivot icon will turn blue, the Estimated End Time and Remaining Time for this cycle based on your inputs are displayed on the pivot. This allows you to know when the cycle will complete and when you can return to the field.

   Once the cycle is complete, the pivot will move back down to the Pivot List and retain the last cycle End Time.

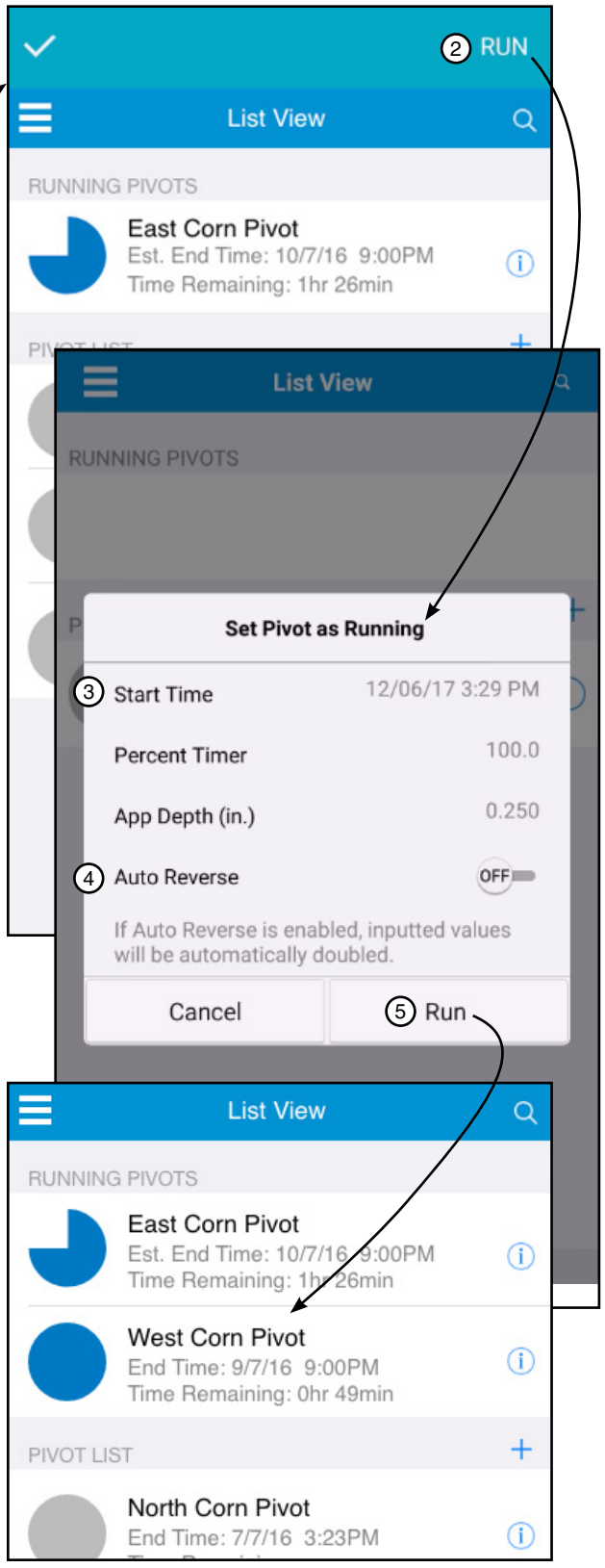


Figure 11-1

Managing Pivot Run Cycles

Optional: How to set a pivot as running from Pivot Information screen

During the process of adding a device or after the devise has been added you can set the device as running from the Pivot Information screen.

While in the Pivot Information screen do the following:

1. Scroll down to the Input Values section.
2. Enter the following values:
   - **Start Time**
   - **Percent Timer**
   - **App Depth**
3. If **Auto Reverse** will be used, enable the toggle.
4. Select **Run**.
5. Click **Done**.

   The pivot will appear in the Running Pivots area, the pivot icon will turn blue, the Estimated End Time and Remaining Time for this cycle based on your inputs are displayed on the pivot. This allows you to know when the cycle will complete and when you can return to the field.

   Once the cycle is complete, the pivot will move back down to the Pivot List and retain the last cycle End Time.

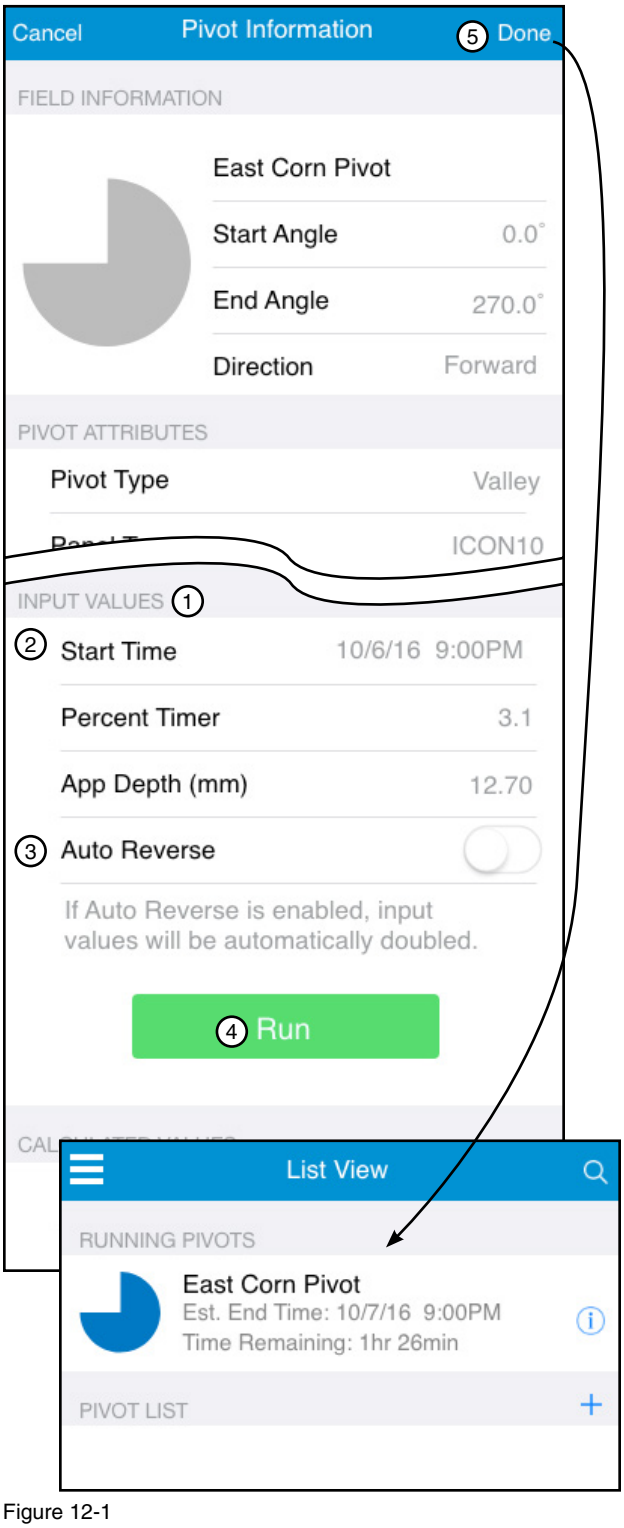


Figure 12-1

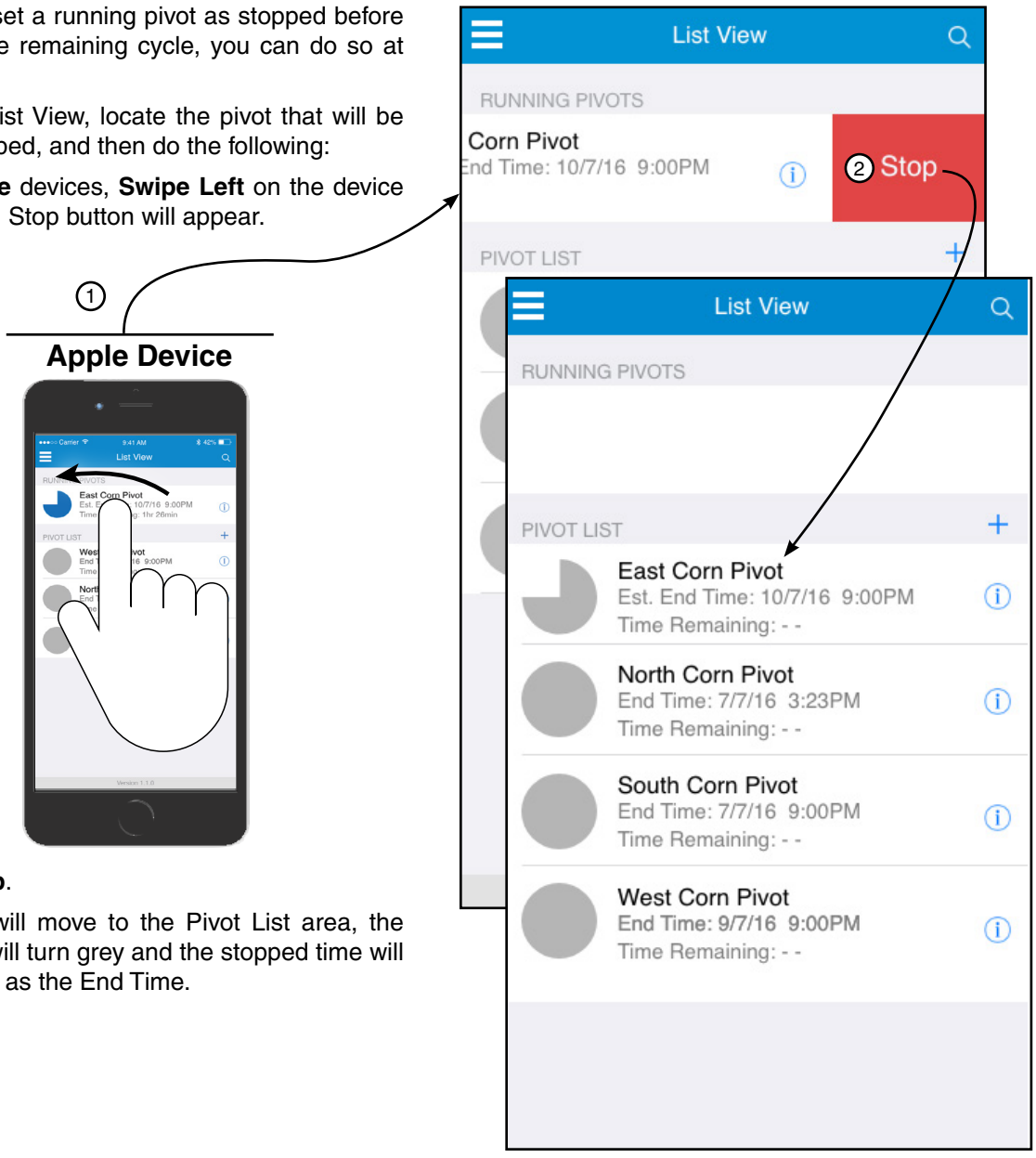
Managing Pivot Run Cycles

How to set a running pivot as stopped

Apple Device

If you need to set a running pivot as stopped before it completes the remaining cycle, you can do so at any time.

1. From the List View, locate the pivot that will be set as stopped, and then do the following:
   - For **Apple** devices, **Swipe Left** on the device and a red Stop button will appear.



2. Select **Stop**.

   The pivot will move to the Pivot List area, the pivot icon will turn grey and the stopped time will be retained as the End Time.

Figure 13-1

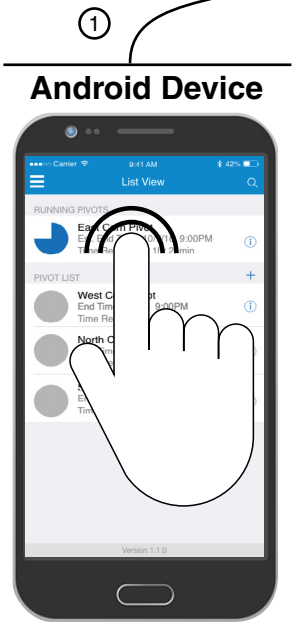
Managing Pivot Run Cycles

How to set a running pivot as stopped

Android Device

If you need to set a running pivot as stopped before it completes the remaining cycle, you can do so at any time.

1. From the List View, locate the pivot that will be set as stopped, and then do the following:
   - For **Android** device, **Press and Hold** the device and a Stop button will appear.



2. Select **Stop**.

   The pivot will move to the Pivot List area, the pivot icon will turn grey and the stopped time will be retained as the End Time.

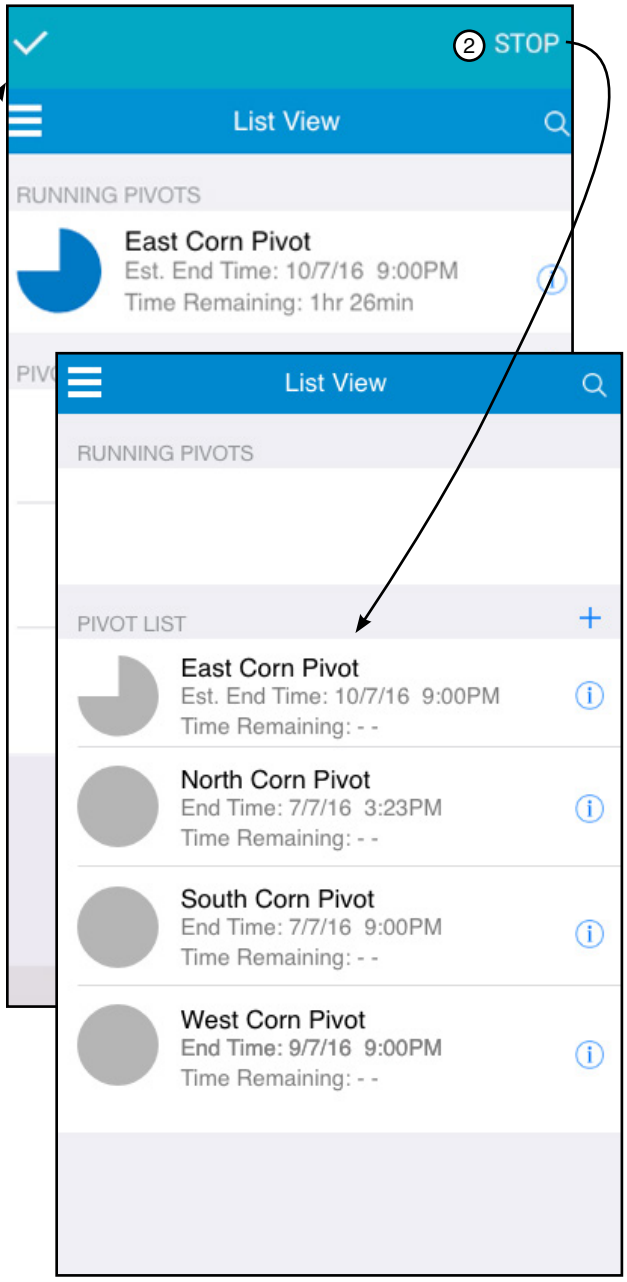


Figure 14-1

Managing Pivot Run Cycles

Optional: How to set a running pivot as stopped from Pivot Information screen

A running device can be set as stopped from the Pivot Information screen.

While in the Pivot Information screen do the following:

1. Scroll down to the Input Values section.
2. Select **Stop**.
3. Click **Done**.

   The pivot will move to the Pivot List area, the pivot icon will turn grey and the stopped time will be retained as the End Time.

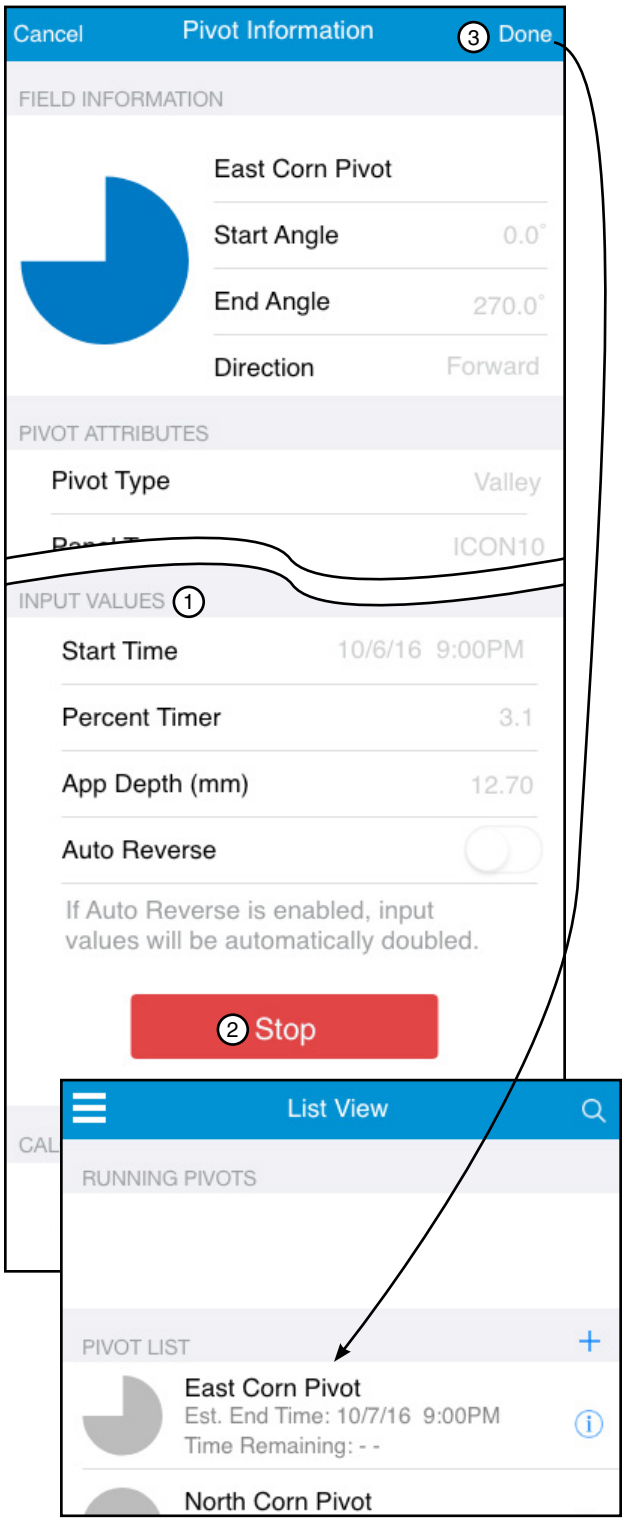


Figure 15-1

Managing Pivot Run Cycles

How to review the run log for a pivot

1. Select the ⓘ information icon on the device to navigate to the Pivot Information screen.
2. Scroll down to the Run Log area where you will see a listing of the run cycles.

   A green icon will indicate that this cycle is currently running. No color icon will indicate that it is not a currently running cycle.
3. For more information about the cycle, select the › arrow.

   On the Run Log, you will find the start time, end time, cycle time and the application that was used for a particular cycle.
4. To close the Run Log, select Done.
5. To go back to the List View, select Done on the Pivot Information screen.

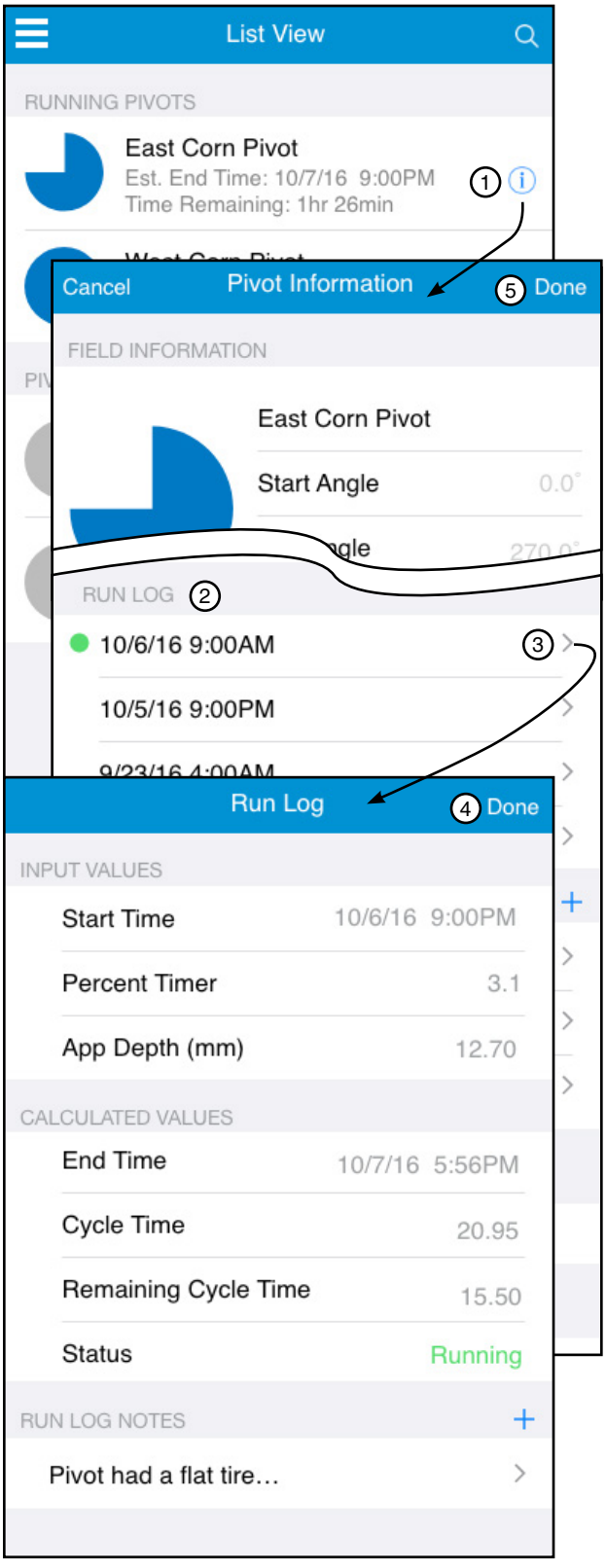


Figure 16-1

Managing Pivot Run Cycles

Notifications

In order for app notifications to function, the Apple or Android device must have notifications enabled in the Run Time app settings.

How to enable a notification for a pivot

1. Select the ⓘ information icon on the device to navigate to the Pivot Information screen.
2. Scroll down to the **Notifications** section.
3. Enable the toggle to **Notify at End Time**.

   Enabling will allow a user to receive a notification on the device that the app is downloaded to when the cycle completes.
4. To save the changes, select **Done** on the Pivot Information screen.

   This setting will be retained for this device until changed and will apply to each run cycle.

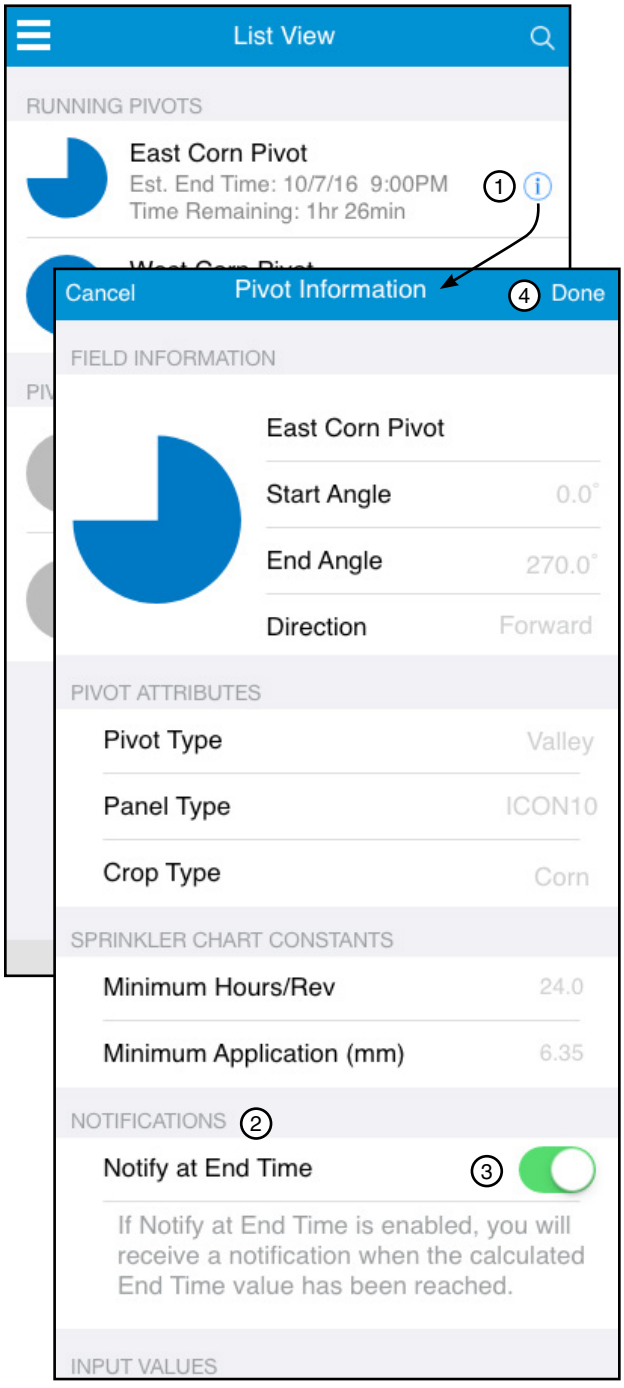


Figure 17-1

Pivot & Run Log Notes

How to add a pivot note

You can add a note about a pivot at any time. This can be anything from notes about pivot qualities or note about things that you noticed in the field.

1. Select the ⓘ information icon on the device to navigate to the Pivot Information screen.
2. Scroll down to the Pivot Notes section.
3. Select + add.
4. Type the note.
5. Select **Done** on the Pivot Note screen.
6. To save the changes, select **Done** on the Pivot Information screen.

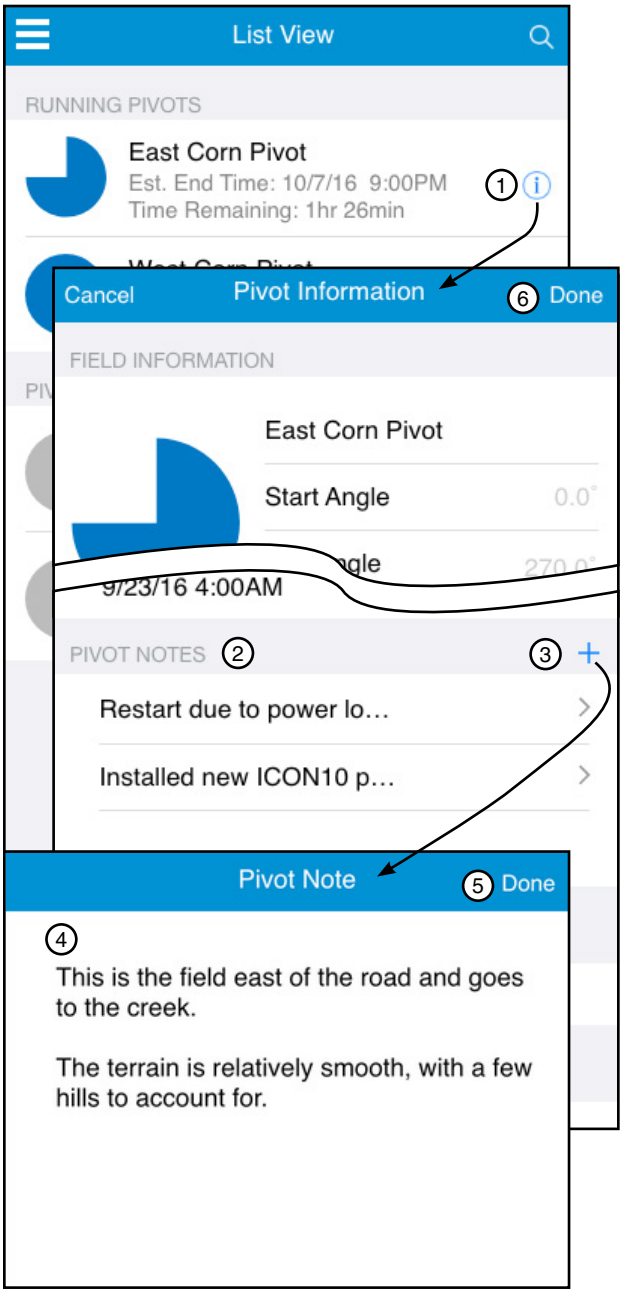


Figure 18-1

Pivot & Run Log Notes

How to delete a pivot note

1. Select the ⓘ information icon on the device to navigate to the Pivot Information screen.
2. Scroll down to the Pivot Notes section.
3. Locate the note that you want to delete, then select the › arrow.
4. At the bottom of the Pivot Note screen, select **Delete Note**.
5. Select **Done** on the Pivot Note screen.
6. To save the changes, select **Done** on the Pivot Information screen.

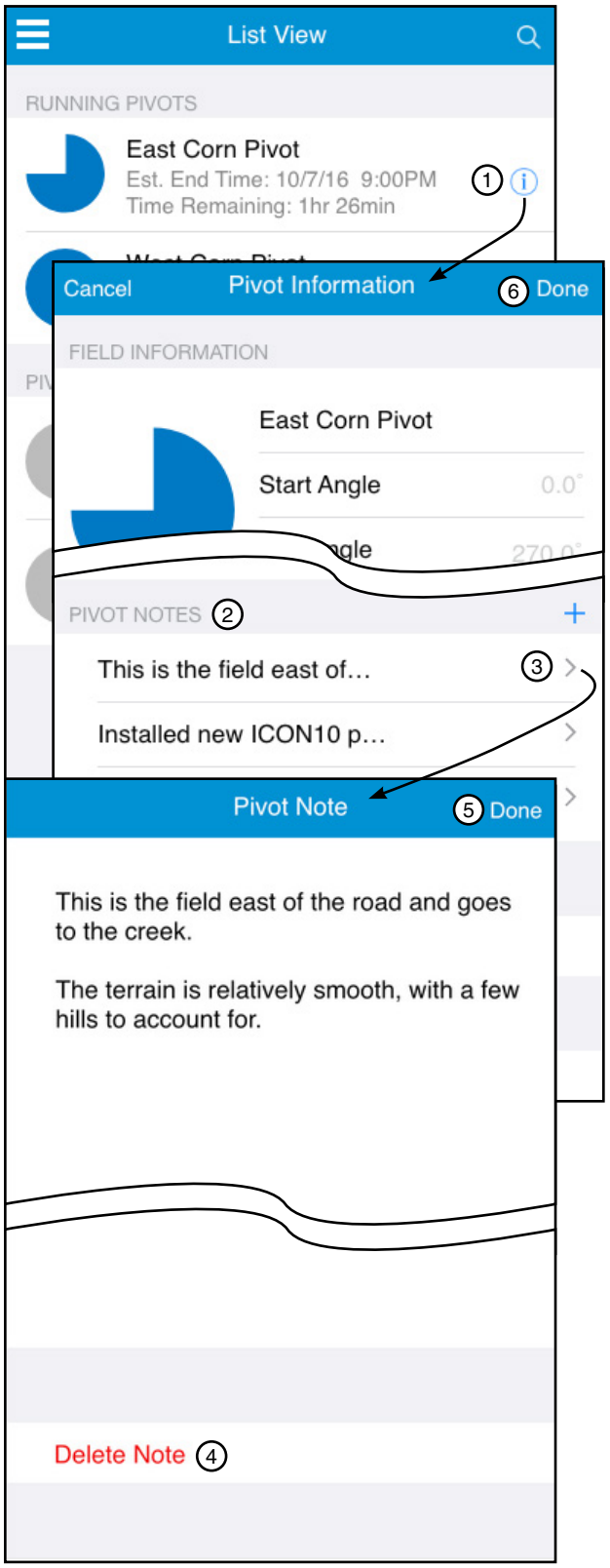


Figure 19-1

Pivot & Run Log Notes

How to add a run log note

You can add a note about a run cycle during and after it's running. This can be anything from notes about why you ran or information you want to collect about the run cycle.

1. Select the ⓘ information icon on the device to navigate to the Pivot Information screen.
2. Scroll down to the Run Log where you will see a listing of the run cycles.
3. Locate the run cycle that you would like to make a note on, then select the › arrow.
4. Scroll down to the Run Log Notes section.
5. Select + add.
6. Type the note.
7. Select **Done** on the Run Log Note screen.
8. Select **Done** on the Run Log screen.
9. To go back to the List View, select **Done** on the Pivot Information screen.

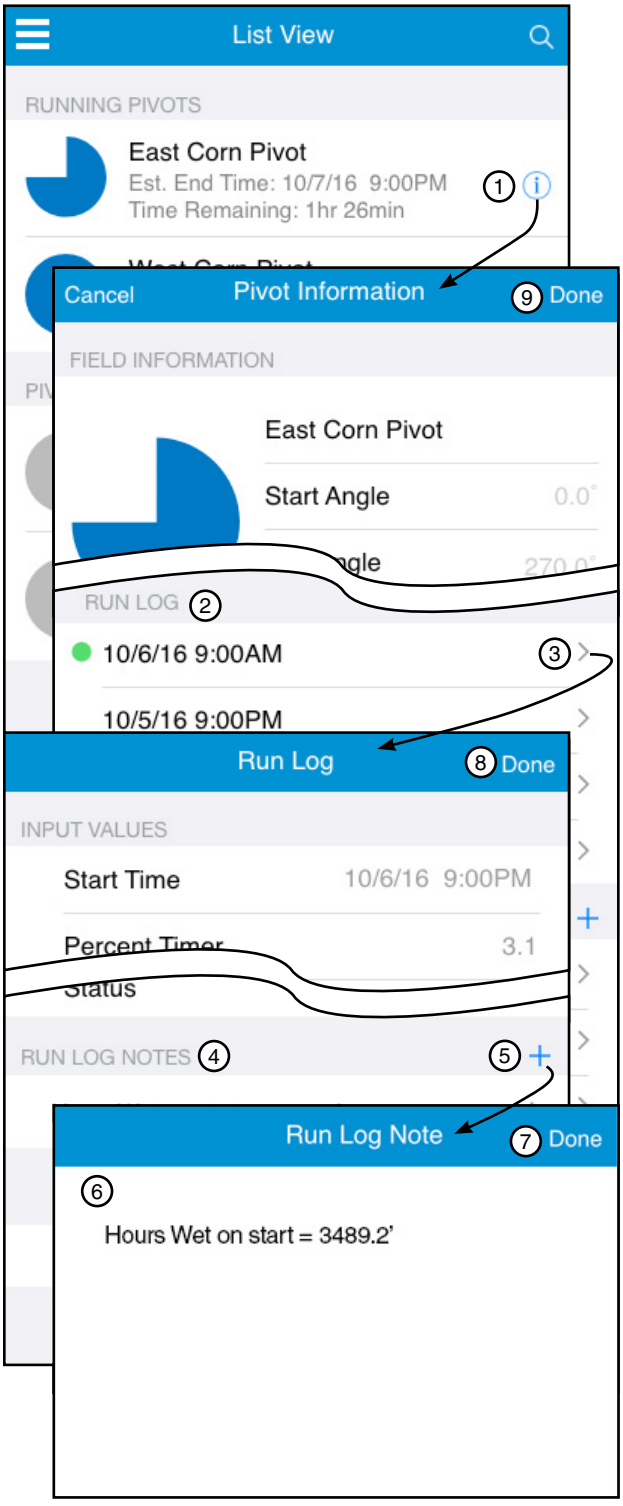


Figure 20-1

Pivot & Run Log Notes

How to delete a run log note

1. Select the ⓘ information icon on the device to navigate to the Pivot Information screen.
2. Scroll down to the Run Log where you will see a listing of the run cycles.
3. Locate the run cycle that you would like to delete a note from, then select the **>** arrow to open the cycle.
4. Scroll down to the Run Log Note section.
5. Locate the note that you want to delete, then select the › arrow.
6. At the bottom of the Run Log Note screen, select **Delete Note**.
7. Select **Done** on the Run Log Note screen.
8. Select **Done** on the Run Log screen.
9. To go back to the List View, select **Done** on the Pivot Information screen.

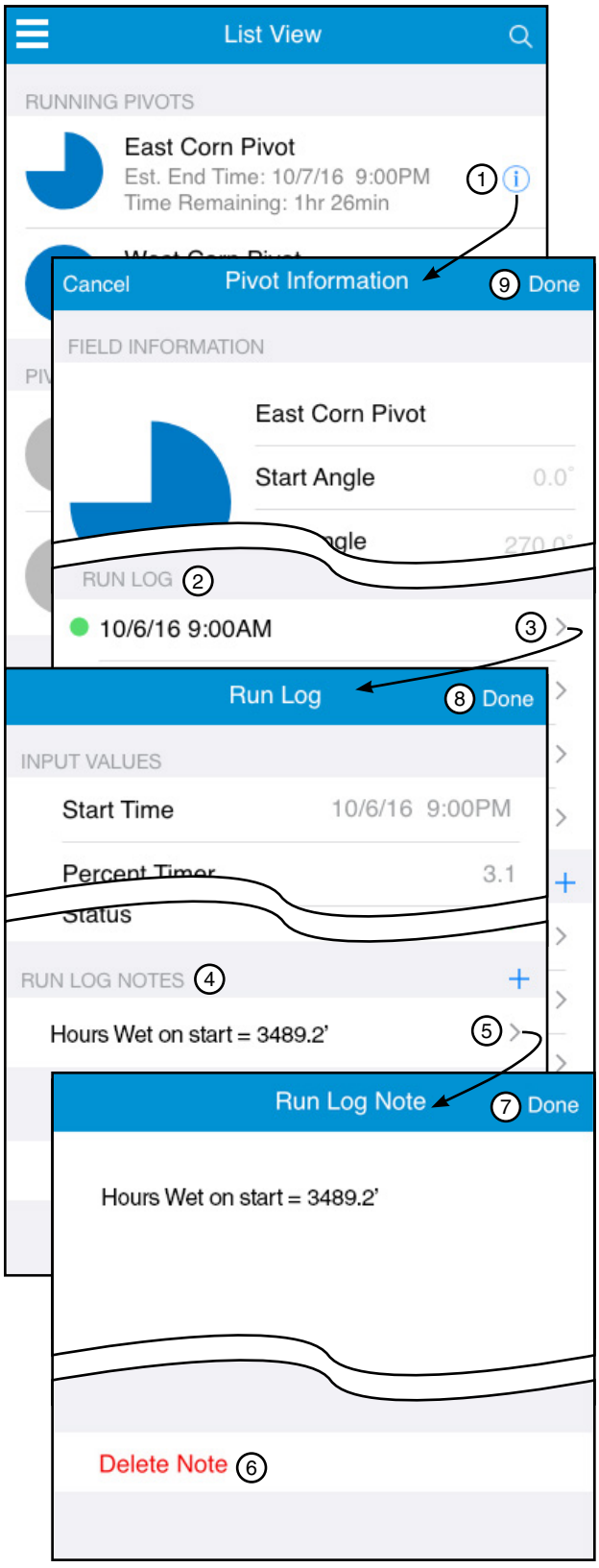


Figure 21-1