CLIMATE FIELDVIEW™

Powered by Climate FieldView™ Drive

Operator's Guide

Compatible with:

iPad
4th generation
16GB 32GB 64GB

iPad Air/Air 2
16GB 32GB 64GB 128GB

iPad Pro
16GB 32GB 64GB 128GB

iPad mini
16GB 32GB 64GB

Note: The information presented in this document was correct at the time of publication. The most recent version of this document can be found at https://climate.com/product-support/

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Understanding FieldView Cab app Maps

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Climate FieldView™ Cab app 5.0x Requirements

1. iPad® Compatibility: Climate FieldView^{TM} Cab app will work with iPad 4, Air generations, Pro iPads with Retina Display, and the iPad mini.
2. iPad Software: iPads must be updated to iOS version 9.1 or newer software.

Climate FieldView^{TM} Cab app

FieldView^{TM} Cab app allows Climate FieldView^{TM} Drive to visually map basic data in real time on the iPad's display. View real-time maps of planting operation, including hybrid, population, and planter speed. Then, when planting is complete, simply remove the iPad from the cab and have all of the data at your fingertips. Additionally, field reports and planting summaries can be viewed and emailed; planting summaries can also be printed to a wireless printer directly from the FieldView Cab app.

When paired with FieldView Drive, Climate FieldView also brings harvest data to the FieldView Cab app. See how what was planted compares to the yield, with zone-by-zone maps in context. Also use split screen to view planting maps next to yield maps. Better information helps to make better decisions for next season.

Climate FieldView^{TM} Plus

To upgrade a Climate FieldView account to FieldView Plus, visit www.Climate.com.

Features:

1. CloudSync keeps FieldView Data in sync between multiple iPads and FieldView Web.
2. Secure Data Backup keeps FieldView data backed up to the Climate FieldView Cloud.
3. The FieldView website https://fieldviewplus.com provides growers with tools for managing their operations. These tools include:
   a. **Map:** View field maps, run Harvest analysis, and build Variable Rate Seeding Prescriptions
   b. **Reports:** Key metrics and operation-wide reports by Field, Planter, & Hybrid.
   c. **Data Manager:** Import ShapeFiles/JPEG 2/GeoTiff files to be viewed on the iPad.
   d. **Text/Email Alerts:** Set limits to when a text or email will be sent.
   e. **Field Manager:** Change/Merge/Import Field files together for correct reporting.

Logging into the Climate FieldView™ Cab app

Once the Climate FieldView™ Cab app is downloaded to a compatible iPad, tap the FieldView**TM** Cab app icon to launch the app.

Step 1

(Already have a Climate FieldView Account)

Sign into the FieldView Cab app with an existing Climate FieldView (or Precision Planting) account by entering the username and password. If you have forgotten your password, select *Reset Password* to create a new password for the account.

Step 2

(Do not have a Climate FieldView Account)

If you do not already have a Climate FieldView (or Precision Planting) account, select *Create Account*. Follow the instructions for creating an account. After completing the account creation process, your account will be logged in to the FieldView Cab app.

Step 3

Next, you will be prompted to allow the FieldView Cab app to use your current location. Select *Allow*. Select *Yes* to allow Push Notifications.

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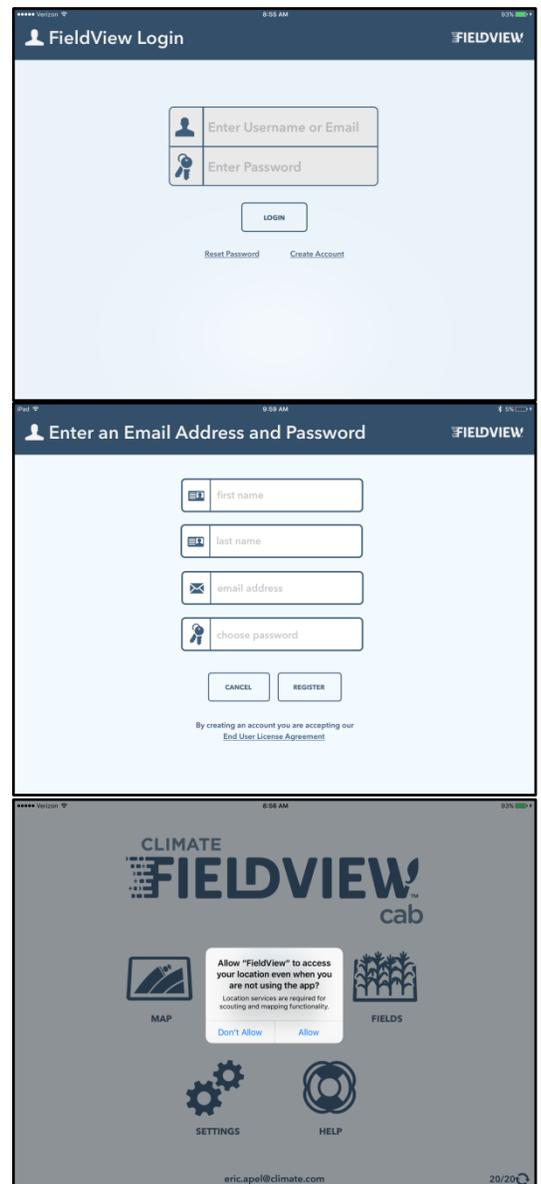
Initial Drive Setup

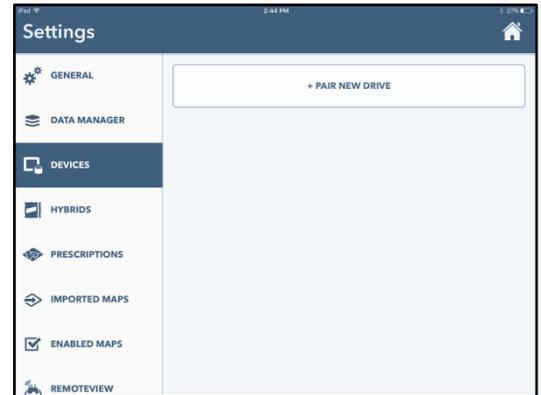The first time that the iPad (with the Climate FieldView^TM Cab app open) is connected to a Climate FieldView^TM Drive, you will need to make sure your Bluetooth is turned on in your iPad settings. Once your Bluetooth is on, go back to your Cab app and navigate to Settings, then Devices. Click *+Pair New Drive*.

After you select Pair New Drive, you will be prompted to select an accessory (your FieldView^TM Drive). It may take 30–90 seconds for your Drive to show up in the list.
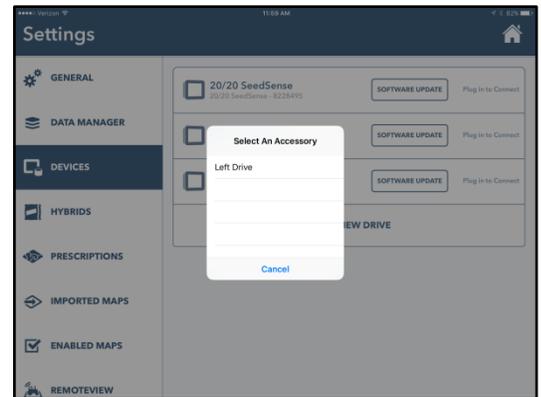
When your FieldView Drive does show up, click on it and follow the prompts for the setup process, which includes giving the device a name, and setting up which equipment you will be using.
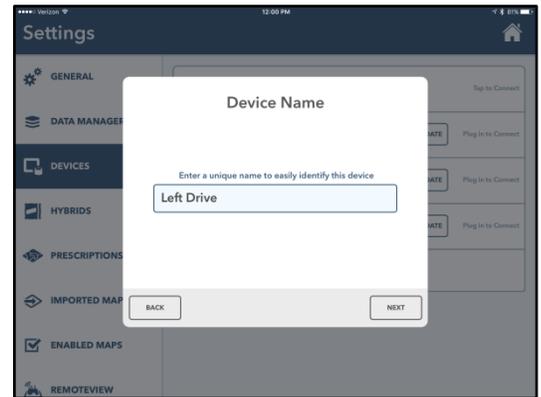
On this page, you will need to either select an existing device that is already set up on your account, or select *Add New Equipment*.

When you add a new combine, follow the prompts to select your equipment type, make, series, and model.
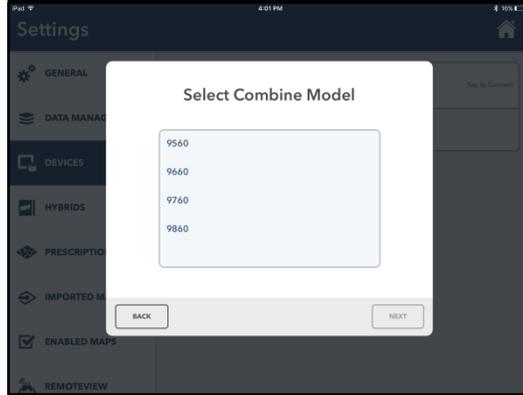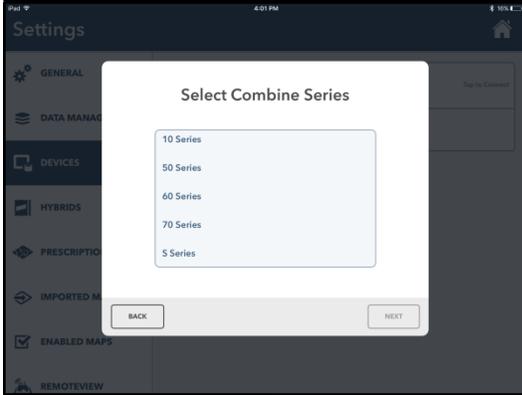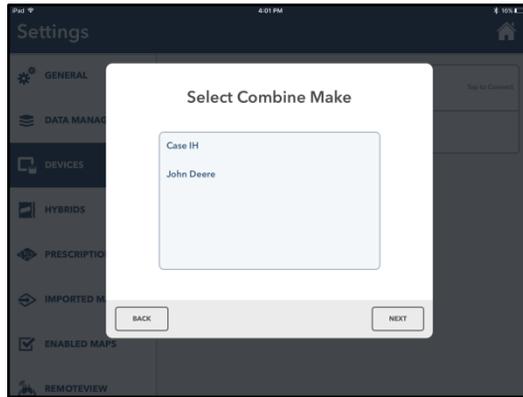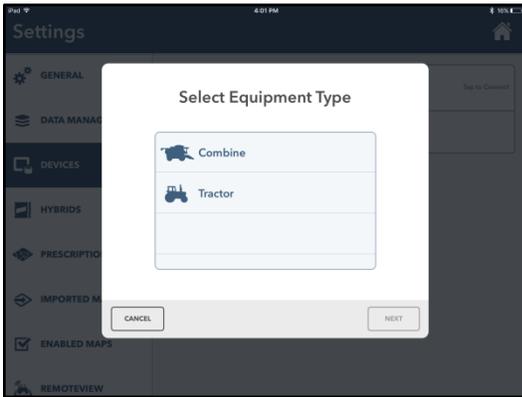
For a tractor, you will be prompted for steering type as well.
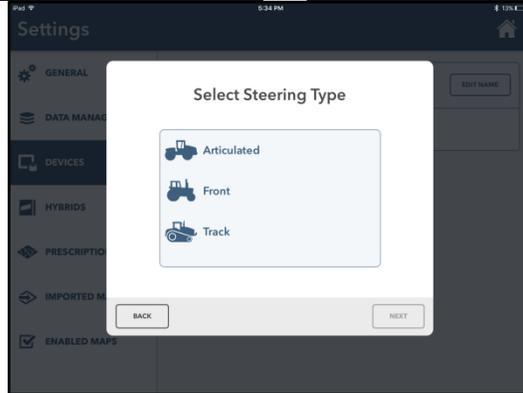
After entering the equipment details, you can enter a name so that you know which piece of equipment you are referencing (shown below).
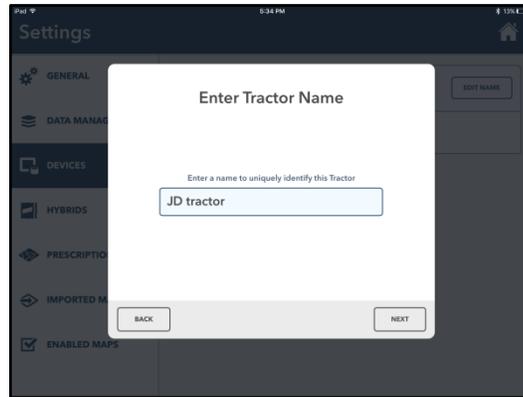
Next, set up the GPS offsets for your equipment. Before you can set these up, you need to answer whether or not this is your FieldView Drive. If you say *Yes*, your FieldView Drive will cloud sync whenever connected to the Internet. If you say *No*, you will only be able to see live mapping, but nothing will sync to the rest of the Climate FieldView platform.
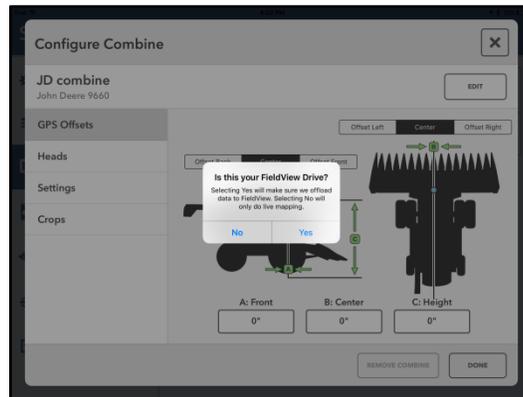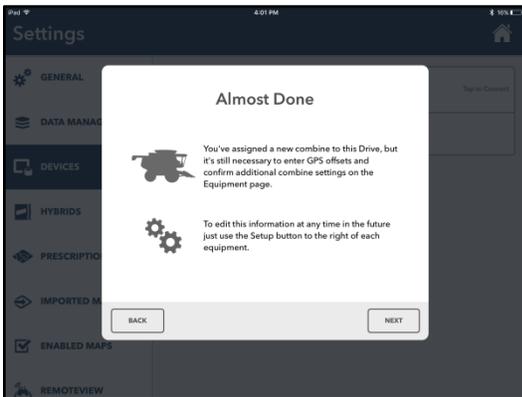
You will need to measure specific distances in order to set your GPS offsets and heads. Refer to the diagram to show you where your measurement should be on your combine or tractor.
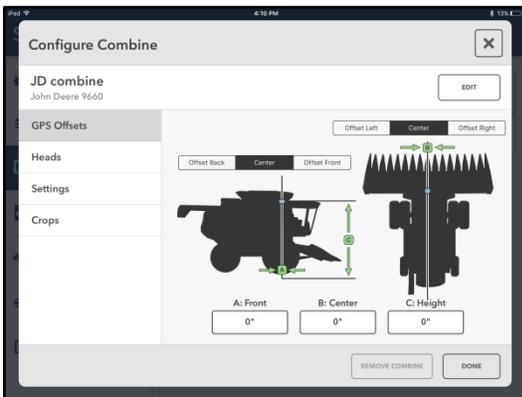
The next page will ask you about your heads, rows, and harvesting height. This page allows you to add multiple heads and make specific heads active at the time of planting or harvesting.
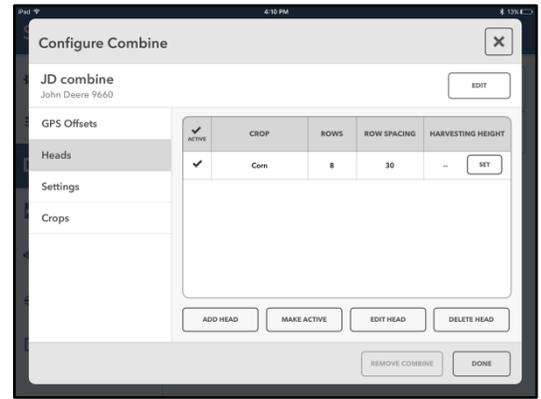
The next configuration page gives you options for swath sensitivity, coverage streaming, machine lag, etc. Machine lag is the distance between when the grain is harvested and when it passes the sensor. This also accounts for the delays in the maps filing in behind the combine.
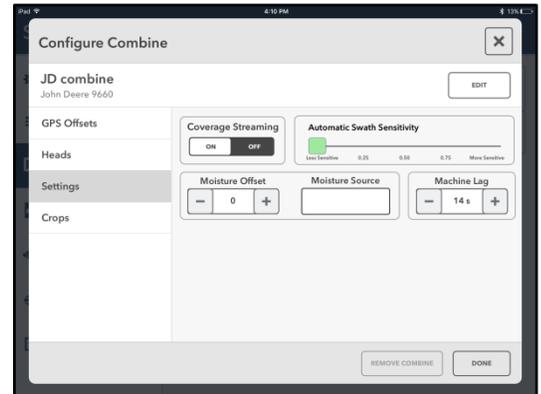
If you already have a tractor set up, the app will prompt you to set up a planter. Follow the prompts to select the details of the planter, such as make, series, and model.
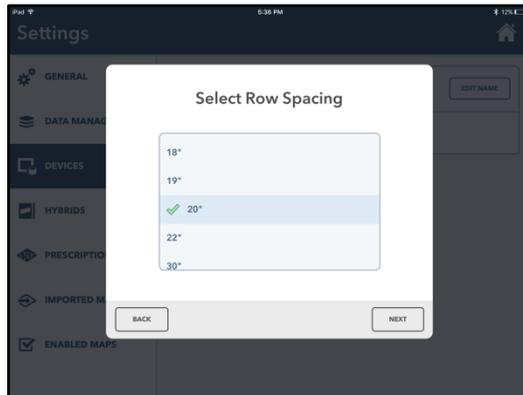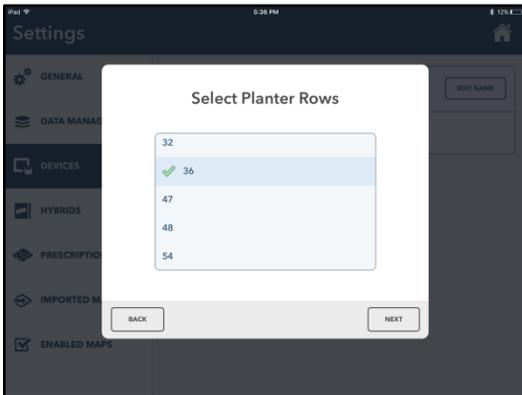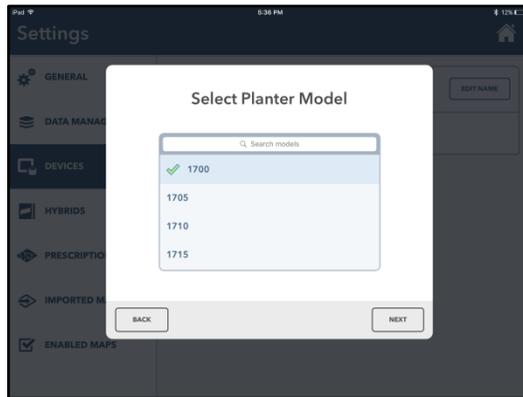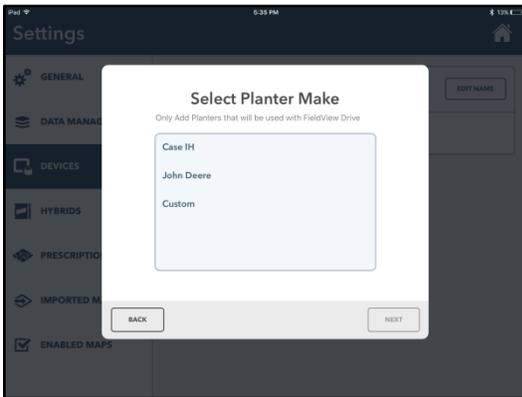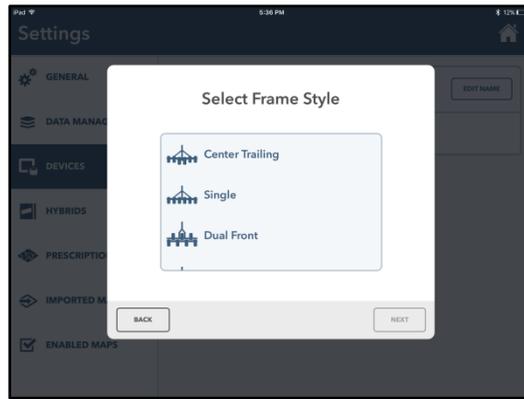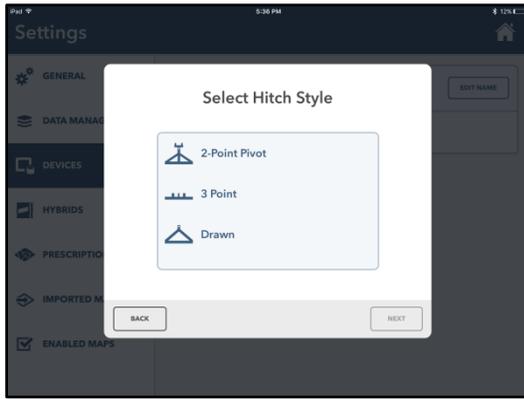
When setting up your planter, you will need to set your start and stop delays for your planter. The Start and Stop Delay options can be used for adjusting when rows start or stop planting on Drive systems. Once the system has received the CAN messages indicating if the planter is planting or not, the FieldView Cab app will delay the start or stop value accordingly.

The Start Delay will adjust how soon the map begins to paint. Increasing the number will increase the delay and decreasing the number will cause the map to begin painting sooner. For example, adjusting the default setting of 0.5 to 0.6 will delay the rows from painting for 0.1 seconds, thus shifting the map in the direction of the planting.

The Stop Delay will adjust how soon the map stops painting. Increasing the number will cause the map to paint for longer, while decreasing it will cause the map to stop painting sooner. For example, adjusting the default setting of 0.5 to 0.4 will cause the rows to stop mapping 0.1 seconds earlier.
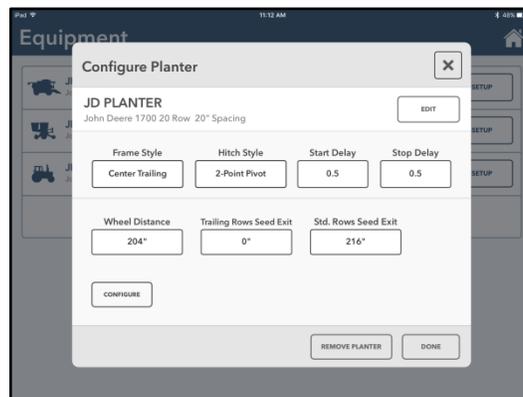
Once you've completed your Drive setup, you will see a green check mark next to that FieldView Drive on your Devices tab; you will also see *Connected* with a green dot on your main homepage.
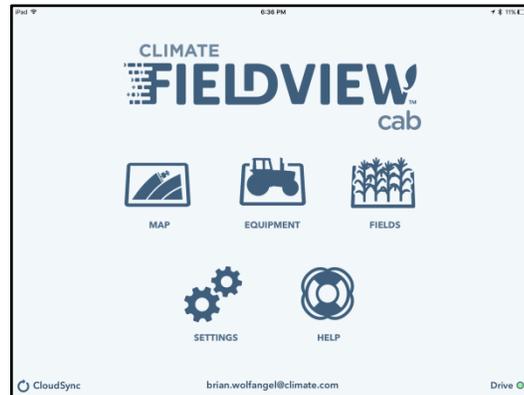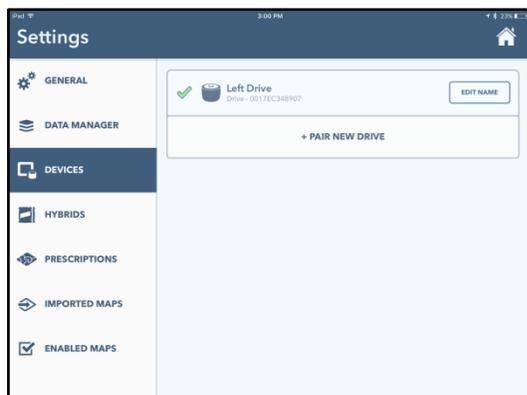
Using Field Manager

The Field Manager can be found within the Fields page on the main dashboard. Field Manager allows users to create and edit client, farm, and field names. Changes made on this page will automatically update all field data across the FieldView™ platform for this account, including Climate FieldView™, Climate FieldView™ Cab app, Cloud, iPad, and 20/20.

Field Manager

Field Manager displays a list of all field names in FieldView Cab app. The list on the left-hand side is in alphabetical order and can be reversed by pressing the [⇅] button. Additionally, the Search Fields textbox at the top allows you to search for a specific field name. Selecting a field name brings up the manager for that specific field. This will allow you to either edit or delete the field. Deleting the field will permanently delete the field name and its data from all years and from the Cloud, iPad, Climate FieldView, and the FieldView Cab app. Deleting a field cannot be undone.

Add a New Field

Pressing the *Add New Field* button will bring up the menu to add a new field. Press on the text box to select an existing Client and Farm name. Or create a new name by typing it in the text box at the top. If creating a new Client or Farm name, select the *Add* button directly underneath the text box to create the new Client or Farm name. Field names can be repeated, as long as they are under a different Client and Farm. Press the *Add* button to finish creating the new field name.

Edit an Existing Field

Pressing the *Edit* button will allow you to edit the Client, Farm, or Field Name. When changing the Client and Farm name, select an existing Client or Farm name from the drop-down menu or create a new name. When changing the Field name, a unique Field name must be created.
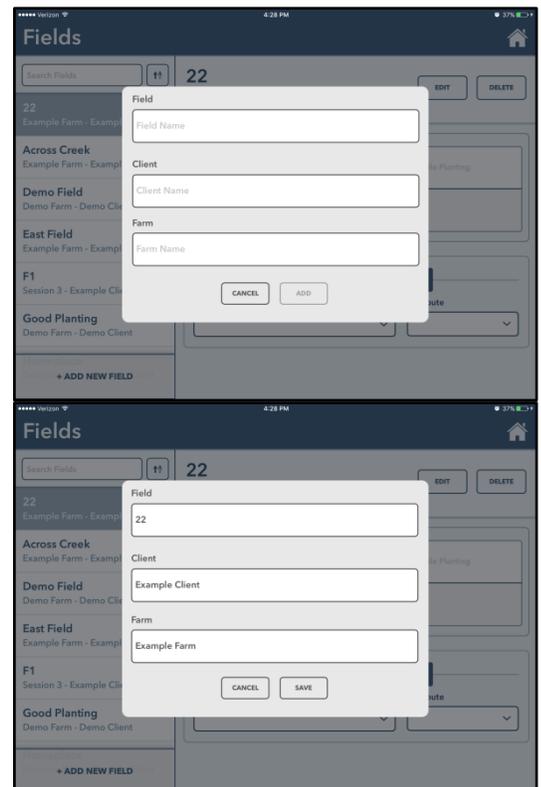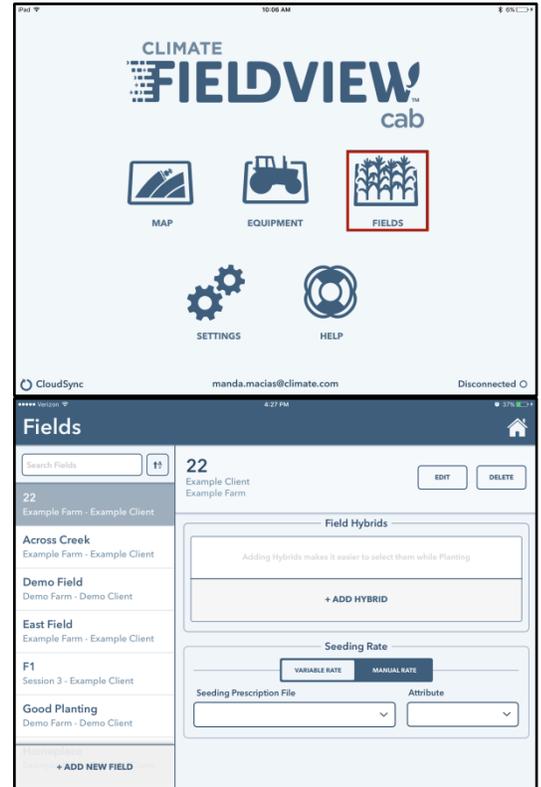
Preparing to Plant

Fields

The Fields screen allows the user to load the crop, hybrid(s), and prescription or manual seeding rate. Planting information can be filled in for each field. The planting information can be adjusted at any time prior to planting the field. A CloudSync will transfer the planting information to all other iPads on the same account.
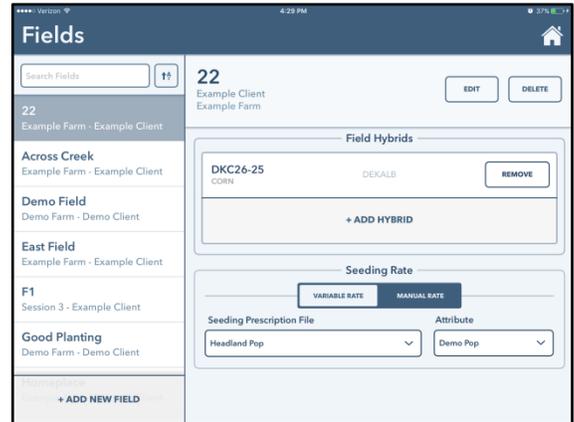
Hybrid – Assign a hybrid to the field by pressing on the *Hybrid* box. The hybrid list displayed is the same list that can be created in the Settings menu under Hybrid. Additional hybrids can be entered by pressing on *Add New Hybrid*. Search through the agX list of hybrids or type in a hybrid to add it as a custom hybrid. If additional hybrids will be planted in the field, select *Add Hybrid*. Hybrids can be removed by selecting *Remove* next to the hybrid that should be removed.

Manual Rate – Assign a seeding rate to be applied to the entire field. Growers may use either the iPad's keyboard or the +/- buttons to select a rate.

Variable Rate – Precision Planting 20/20 option only; please refer to the 20/20 FieldView™ manual.

Prescription – Prescriptions may be uploaded from third-party software to the Climate FieldView™ Web (see *FieldView Web* section at the end of the document) or created using the Script Creator in Climate FieldView™ Pro. Please note, the Climate FieldView™ Drive is a "read only" tool and cannot implement prescriptions or communicate with the OEM monitor.

Attribute – Precision Planting 20/20 option only; please refer to the 20/20 FieldView™ manual.

Beginning to Plant a Field

When entering a field, you will be prompted to change the active field if Boundary Detection is enabled and if either the Climate FieldView™ Cab app has spatial data for the field or a boundary for the field has been created on the FieldView or Climate FieldView website. See page 17 for how to turn on Boundary Detection.
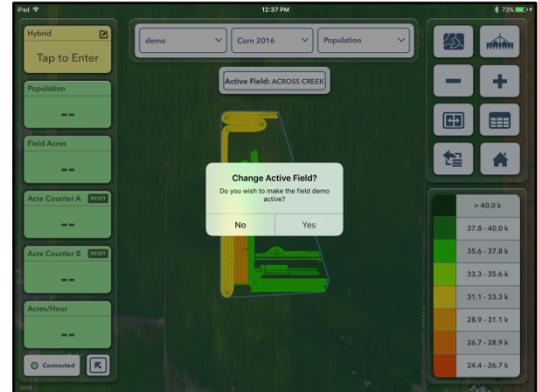
When making a given field active, you must confirm a summary of the hybrid information that has been set for that field. If the hybrid information is incorrect, you can change the plan. If it is correct, press *Confirm* and the hybrid information will be applied to the metric pane automatically. You can then begin to plant. To disable this feature, go to the Settings menu and deselect *Prompt Hybrid on Field Change.*

The hybrid selected in the Fields screen (or the hybrid from the top of the list, if multiple hybrids were selected) will automatically be assigned to all rows on the planter. To change this, select in the Hybrid metric, located on the left side of the screen. Press *All* to assign specific rows to a hybrid. Up to four hybrids can be chosen and assigned to rows in any given field.

Using the Equipment Page

The Equipment menu is designed to allow Climate FieldView^{TM} Drive users to configure the equipment to which the FieldView^{TM} Drive will be connected. From this page, you can create and configure Planters, Tractors, and Combines.

Use the Equipment page to RemoteView into any piece of equipment on your own account.

RemoteView

The RemoteView feature in the Climate FieldView™ Cab app allows users to remotely connect to a FieldView Drive paired with the FieldView™ Cab app. This establishes a wireless connection that allows you to see live Planting or Harvest information on your own FieldView Cab app in a read-only mode. You can see Map types and set-up screens; however, you cannot make any changes to the FieldView Drive iPad from RemoteView mode.

If an iPad is logged into the same account, RemoteView will list the planters or combines that are available to connect on the Equipment page. Viewers on the same account as the operator will be taken directly to the Map screen without operator prompts. Planters and Combines listed as Unavailable do not currently have a FieldView Drive connected to the FieldView Cab app with active Internet connection.

Dealers may select their customers using the RemoteView option in the Settings menu. (This option is only available for dealer accounts.) When a dealer or Product Support uses RemoteView, the equipment operator will be prompted to allow the remote connection to be established.

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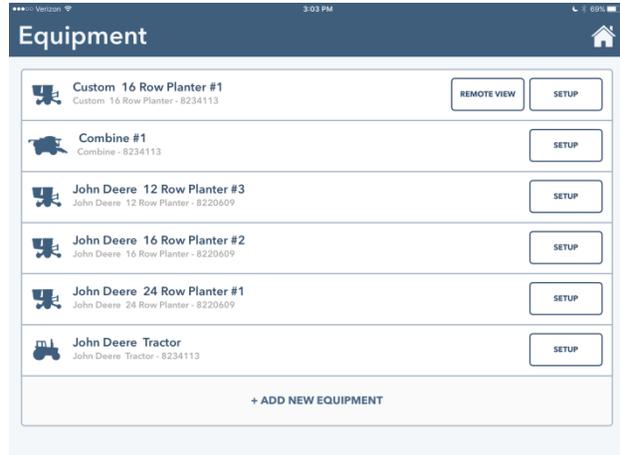
Using the Help Menu

The Help menu gives access to different help tools for Climate FieldView™ Cab app. From the Help menus you can contact Support directly, read Operator's guides, view demo videos, and access log information.

Contact Support

Selecting *Contact Support* lets you enter a ticket with the FieldView Support team. Enter a contact phone number, select the product requiring support, and provide a description of the problem before pressing *Submit Ticket*. Please be as detailed as possible to speed resolution of the issue. A FieldView representative will contact you by phone to resolve the matter. When you submit a ticket, various log files as well as field data for the active field (if connected to a Climate FieldView™ Drive), will be sent to FieldView Support to aid in the troubleshooting process.
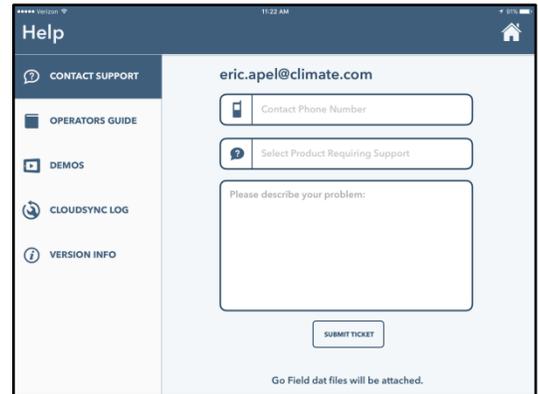
Operator's Guide

The FieldView Operator's Guide and How-To documents are accessible from the FieldView™ Cab app. Selecting *View Guide* will link to the Operator's Guide on the iPad Safari Web browser. Select *FieldView Plus How-to Docs* to open a window in the iPad's Safari browser with links to all of the documents.
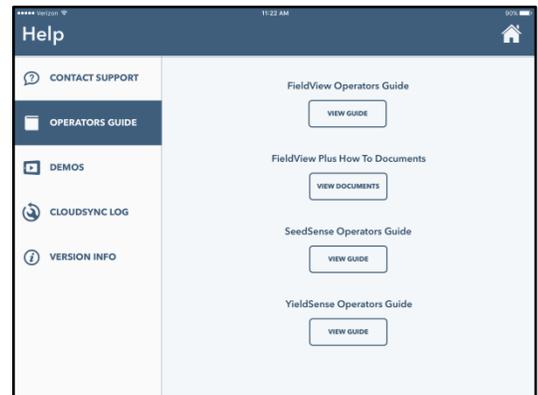
Demo

Demo videos are available under the Settings option and may be viewed in order to see how the FieldView Cab app operates in the field. There are pre-recorded planting and harvest videos. The videos must first be downloaded by pressing *Download*. After a video has been downloaded, you can watch it any time without downloading it again.
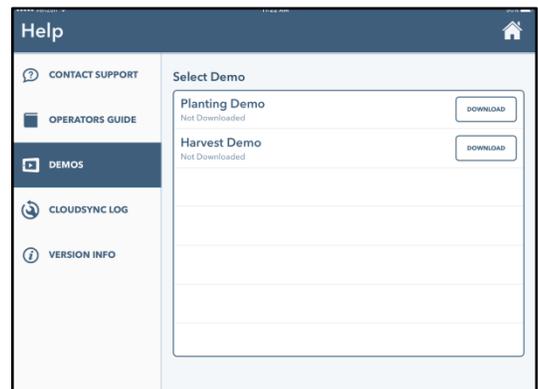
CloudSync Status

The CloudSync Log will help determine any connection issues FieldView Cab app might be having when syncing data to the cloud. This log will only show when you are signed in as a Climate FieldView™ Plus user. You can view information about Previous CloudSync sessions along with status, reason for any issues, and how much data was used to sync.

To see the status of a Field's uploading to the FieldView website, toggle to *Upload Status* at the bottom of the page. This will give the status for every field that has data to be uploaded to the website.

About/Version Info

The version of FieldView Cab app currently installed on the app is identified here; you will also find that version's release notes. The release notes outline new features, changes, and other items of note. The License Agreement (EULA) and Privacy Policy are both available on this screen.

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Using the Settings Menu

Settings

The Settings screen allows you to manage different Climate FieldView™ Cab app settings

Units lets you toggle between English and metric units of measurement. This will determine the units of measurement used to display various metrics in the FieldView™ Cab app.

Diagnostic Logging allows you to toggle between normal and detailed diagnostic logging. You should only select *Detailed* when a Product Support representative asks you to do so. *Detailed Logging* records more detailed log information that can be used in troubleshooting. It uses significantly more memory than normal logging.

CloudSync enables the app to send and receive data from the FieldView Cloud. CloudSync is only available for Climate FieldView Plus users. When enabled, CloudSync allows the app and the cloud to remain in sync as data is backed up to the cloud and transferred to other iPads. When the arrow next to CloudSync is spinning, FieldView Cab app and the cloud are in the process of syncing.

CloudSync Field Files gives you the option to switch to Send Only instead of Send & Receive. Send Only will cut down on data transmissions, but will not allow FieldView Cab app to receive data from the cloud or other iPads.

Control Pane – Precision Planting 20/20 option only; please refer to the 20/20 FieldView manual.

Field Boundary Detection alerts you when a new field has been entered and gives you the option to change the active field. The popup will appear either 60 seconds or 5 minutes after crossing the boundary based on the use of 5 Hz or 1 Hz GPS respectively. This message is shown once every 24 hours for each field boundary. However, you will not get a popup if you are actively planting. View boundaries by turning on *Field Boundaries* in the app settings.

Show/Hide Field Boundaries determines whether field boundaries are shown or hidden on the maps of the FieldView Cab app. These are the boundaries used for Field Boundary Detection.

Prompt Hybrid on Field Change will give a popup when a new field is made active to verify the hybrid(s) to be planted in the field.

Show Scouting Field Pins will give you the option to see your Field Pins for all seasons or a selected season on each field.
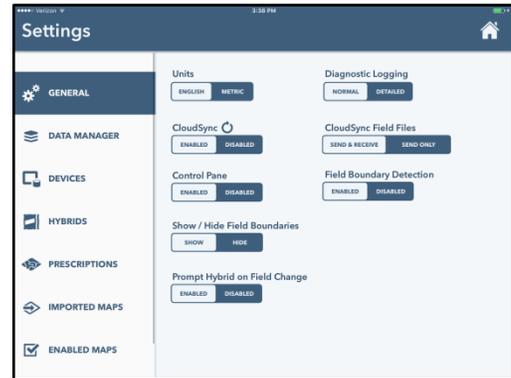
Using the Settings Menu

Data Manager

Data Manager provides several options for managing the data in the Climate FieldView™ Cab app. You can sync, build, and clear maps from previous seasons by selecting the appropriate year at the top of the screen. To sync and build all fields from that year, check the first box to select all fields, then press *Build Map*. To sync and build only specific fields, check the boxes next to the field names, then press *Build Map*. Fields that have maps built require more data to store than if maps are not built. Selecting fields and pressing *Clear Map* will only clear the map for that field; this will not delete the field data from which the map was built. To rebuild the map for that field, select the field and press *Build Map*.

Devices

The Devices page allows you to manage the Climate FieldView™ Drives and 20/20s in your operation. Give each device a custom name in order to quickly identify each unit.

Hybrids

The Hybrids page allows growers to enter the list of hybrids that will be planted, so you can pull up your own custom list instead of searching through the full AgX database every time. When selecting hybrids for this list, you may choose from the AgX list or enter custom hybrids.
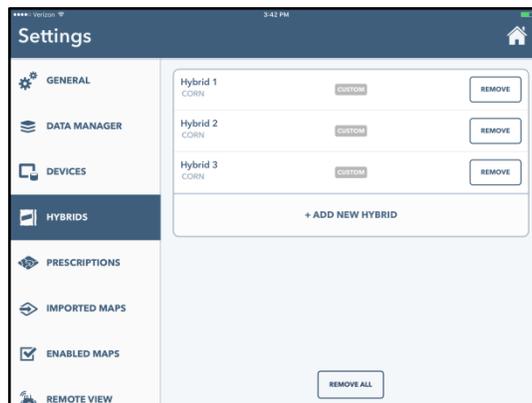
Using the Settings Menu

Prescriptions and Imported Maps

The Prescriptions and Imported Maps page will list all files that have been imported to FieldView Web. All Shape Files imported into FieldView Cab app through the iPad's Mail app will be designated as Prescriptions. Files displayed on these two pages can be deleted by pressing *Remove* next to the file name. When a file is deleted on the iPad, it will be also deleted from the Web and all other iPads associated with the account.
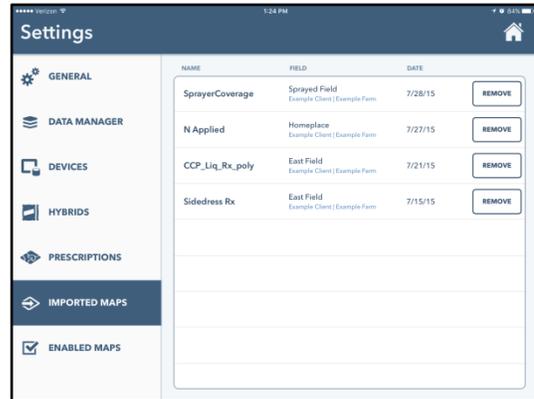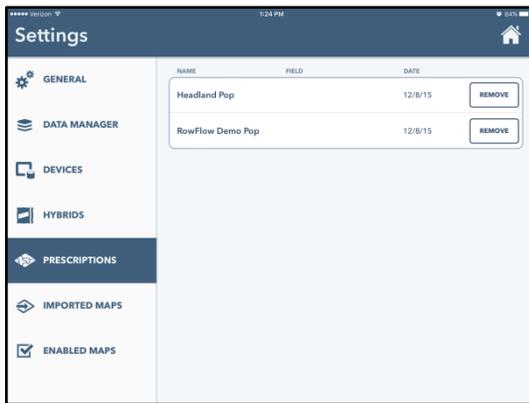
NOTE: Prescriptions only sync to 20/20 monitors and not OEM displays.

Enabled Maps

From this screen, you can select which maps are enabled when operating FieldView™ Cab app. Disable specific maps by pressing on the check mark. Re-enable maps by pressing on the *X*. Disabled maps will not show up in the map selector on the Maps screen.

When using the FieldView™ Drive, only the maps checked on the right are available. All others relate to the 20/20.
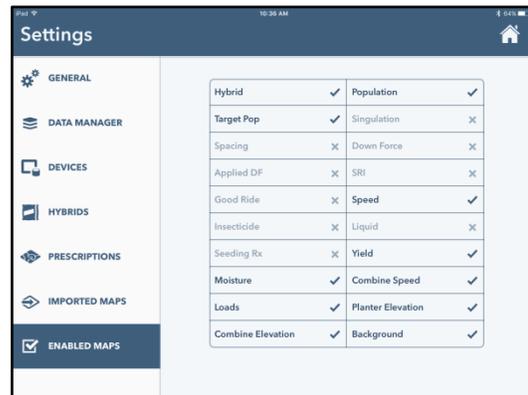
Navigating the Map Screens

Navigation Menu

On the top right of the screen is a display showing navigation options for the Climate FieldView™ Cab app. There are four zoom options in this menu. The Field Zoom button goes to a zoom level that displays the entire extent of the field. When connected to the Climate FieldView™ Drive, the top right button is the Planter/Combine Zoom button. This centers the zoom level on the planter, showing one pass in detail. When the Planter/Combine Zoom button is pressed, the screen will remain centered on the planter and will track the machine as it moves. When not connected to a FieldView™ Drive, the top

right button is the Person-level zoom button. This zooms to a level showing your immediate vicinity using the internal GPS of the iPad. The current location will be identified by a blinking dot. The next set of buttons are a zoom in (+) and zoom out (−) option, SplitView, and Field Report. The More menu at bottom left contains the Planting Summary, Drop Field Pin feature, Take Screenshot feature, Email Field Files, and Field Region report feature. The Home button returns you to the home screen of the app.

Show Field Report

The Show Field Report function displays a field report for most maps. These field reports vary from map to map; we will discuss these reports in greater detail in the following sections. The report displayed will coincide with the map type you have selected.

Navigating the Map Screens

SplitView

SplitView allows you to view two map types simultaneously in the Climate FieldView™ Cab app. The two maps move in sync with one another at all times. When you open a Field Report while in SplitView, the Field Report will always be for the map on the right-hand side of the screen. You can also display imported maps (page 34) in SplitView.

Planting Summary

The Planting Summary Report displays field average information for Hybrids and Population. This report is a quick summary of the planting operation in this field. View the Field Summary as a PDF by pressing *Create Map PDF*. Email or print the PDF by pressing *Email/Print*.

Drop Field Pin

Dropping a Field Pin lets you make a note about a specific location in the field. That note is tied to the GPS location where the pin was dropped. In addition to text, you can also take photos with the iPad and attach them to the pin. You can also place a Field Pin simply by long pressing on the map screen at any time. You can view Field Pins from all years on your map or select only a specific year by going into your Settings page. You can also view these in the Climate FieldView™ app under Activity.

Take Screenshot

The Take Screenshot feature lets you take a screenshot of the FieldView™ Cab app screen. Choose between saving the picture to the camera roll, emailing the screenshot, or posting it on Twitter. This allows you to quickly pass information about a field to a dealer, FieldView tech support, another decision maker in the operation, a landlord, or other interested party. The Metrics Pane, Field/Map selector, and Navigation Buttons will not appear in the screenshot.

Navigating the Map Screens

Email Field Files

The Email Field Files feature allows you to email the raw data files for each field from the Climate FieldView™ Cab app. You can send only the data files from the FieldView map you are viewing at the time. To use this feature, the iPad's email capabilities must be set up through the standard Mail app; an email program downloaded from the iPad's app store will not work. The total size of data files that can be sent from FieldView will be restricted by the file size restriction in the iPad's Mail application.
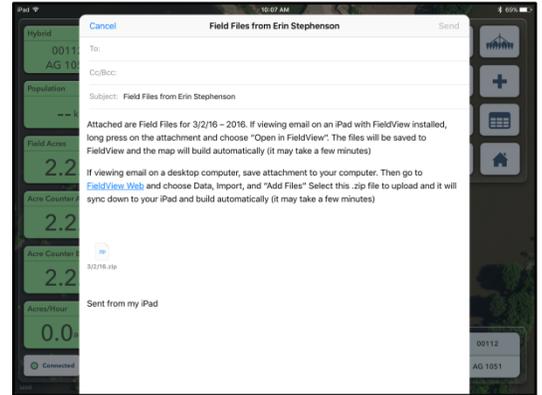
Field Region Report

The Field Region Report is a powerful tool for understanding the yield for a specific region of a single field in comparison to the existing reports that display averages for the entire field. Draw a region within the field to generate the report. The number of acres for the drawn region will display next to the average yield, average moisture, and a table to compare yield by hybrids planted, SSURGO soil types, and elevation. This tool requires an Internet connection.

After tapping the *Field Region Report* button, use your finger to draw the specific region of the field directly on the map. Complete drawing the region by closing the outline and creating a single shape. Next, the iPad will connect to the Internet to calculate the report. This may take several seconds, depending on the size of the region and the speed of the Internet connection.

The report will then display in a pop-over window directly above the drawn region. Depending on the number of hybrids, soil types, and differences in elevation inside the region, you may need to scroll to see the entire report. Close the window by tapping anywhere on the report.

If the Field Region Report button appears gray and is disabled, it is likely because the feature is not available for one of the following reasons:

- The selected field does not have both planting and harvest data
- The iPad does not have an Internet connection (cellular or WiFi)
- The iPad is currently connected to a Drive or 20/20
- RemoteView is currently being used
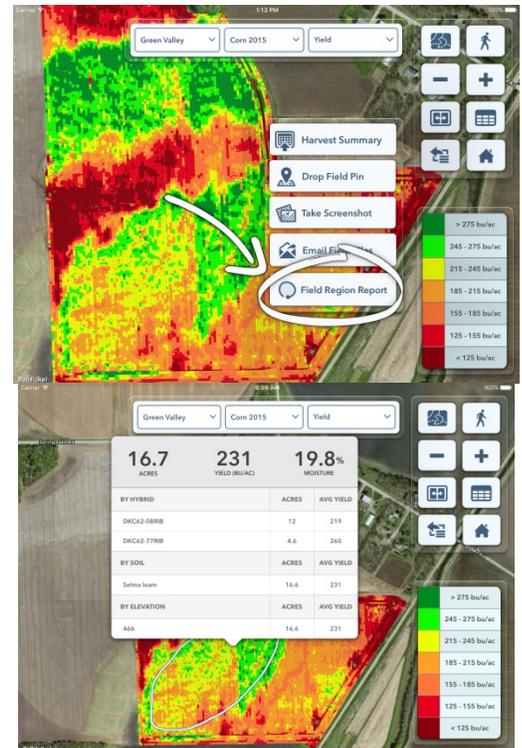
Navigating the Map Screens

Metrics Pane

The collapsible Metrics pane on the left of the screen displays key data from the planter, allowing you to see basic planting data while looking at FieldView™ Cab app. An icon indicating the status of the connection between the FieldView Cab app and the Climate FieldView™ Drive is located at the bottom of the pane when not in Demo mode. Press the arrow to open or close the pane.

Select the Hybrid Metric on the top of the Pane to change or add hybrids for the active field. Tap the *Select Additional Hybrid* button to add new hybrids. Select a hybrid from the list or create a new hybrid at the bottom of the list. Up to four different hybrids can be selected at the same time. If you are using multiple hybrids, adjust the row assignments by tapping on the box next to the hybrid name. Hybrids can be removed by tapping on the *X*.

Selecting Fields

The Field Selector at the top of the screen allows you to view a different field. Selecting a different field while planting or harvesting from this menu does not change the active field. Only fields for which data is present will appear in the list. When connected to a FieldView™ Drive, you may be asked to change the active field if the field being viewed is not the active field.
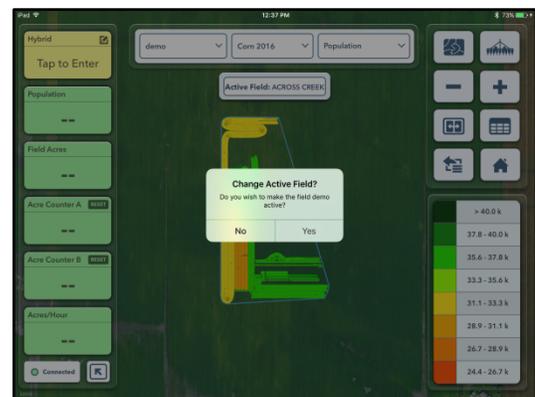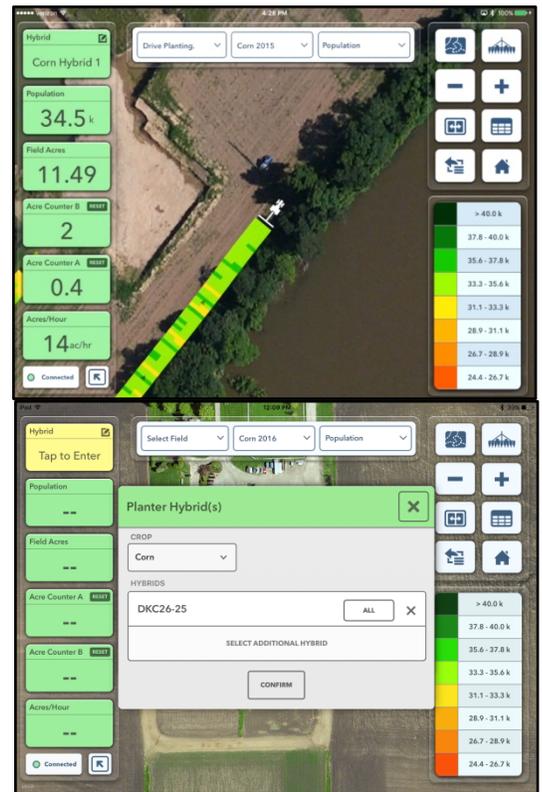
Navigating the Map Screens

Row Control

Row information is displayed only when choosing a hybrid. You can select up to four hybrids and assign them to specific rows or to half the planter.

Understanding the Climate FieldView™ Cab app Maps

Navigating Among Maps of the Same Field

Tap the bar at the top of the screen showing the current map type to drop down a selection guide. Selecting Imported & Rx at the top lets you view any shape files imported into FieldView Web and prescriptions assigned to a field. Accounts with Climate FieldView^{TM} Pro can also view Field Health maps.

Editing Legends

The Legend pane in the bottom right identifies the values represented by the various colors on a map. In many maps, you can customize the legend, choosing the minimum and maximum values and the number of steps to be used in the legend; the system will create the steps automatically using your preferences. Simply touch the legend to edit or minimize.

NOTE: Population, Planter Elevation, Yield, and Combine Elevation Maps have an auto-adjust option to set the correct values to best display the variability of the data in your field. You can still manually customize a legends after using the auto-adjust option.

General Principles

FieldView™ Cab app displays its maps in a row-by-row format for Case planters and by section averages on John Deere planters. Each pass is differentiated by a heavier black line. Directional arrows under each pass indicate the planter's direction of travel.

NOTE: Maps are initially painted on the iPad while planting/harvesting with live data. Rebuilt maps are painted from the saved .DAT files, and may look slightly different.

Hybrid

The Hybrid map displays the varieties planted in a particular field as recorded by the Climate FieldView™ Drive. In order for this map to accurately display hybrids, hybrids must be correctly set up in the FieldView Cab app and assigned to correct rows. The legend cannot be edited but will grow as additional hybrids are planted in the field. The Field Report for the Hybrid Map shows acres and planting dates for each hybrid as well as overall acres and planting dates for the field.

Population

The population map indicates the population at which the crop was planted. The legend may be edited. The report for the Population Map shows the average population for each row/section as well as the total average population for the planter. It also shows the number of units used, based on the hybrids setup on the FieldView Cab app.

Planter Speed

Planter Speed can be displayed using the Map Options drop-down at the top of the screen. The speed of the planter is reported by the GPS system to which it is attached. This information is updated at 1Hz regardless of the GPS system's actual output (often 5 or 10Hz). The legend may be edited. There is no Speed Field Report.
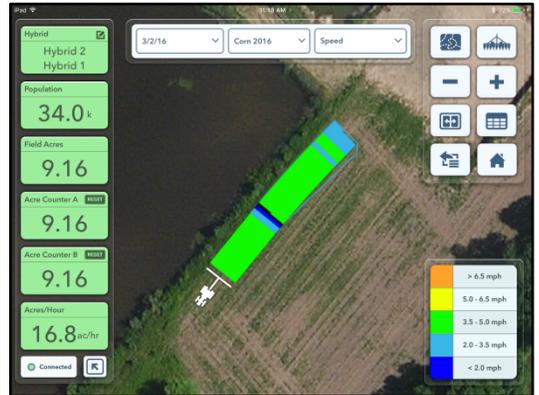
Seeding Rx

Display prescriptions by using the Map Options drop-down at the top of the screen. Select the *Imported & Rx* option, then select the prescription you would like to see. You can only view prescriptions that have been imported and assigned to the active field.

Imported Maps

From the Maps page, you can view shape files with the .SHP, .SHX, and .DBF file extensions that have been uploaded to FieldView Web through Import. At the top of the map selector, switch from *Standard* to *Imported & RX*. The legend for imported maps is not editable. Field Health will only be available for FieldView™ Pro users.

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Yield

The Yield Map displays the bushels per acre harvested; this figure is calculated across the head width, not row by row. Each block of data represents a fifth of a second. The Yield Map will always display the map as bushels per acre. The Yield Map Field Report will either display the average bushels and moisture for each hybrid for the entire field, or a ten-second average; toggle between the two displays by selecting *Field* and *Instant* at the top of the report.
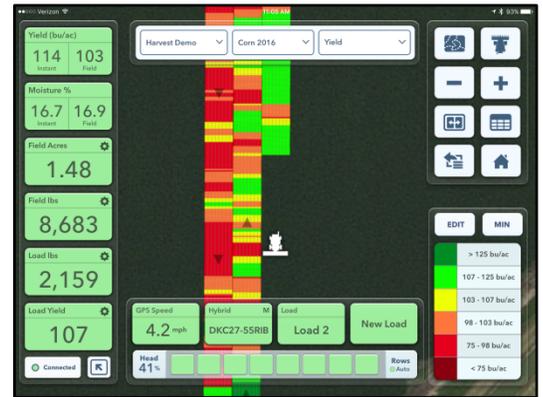

Moisture

The Moisture Map displays the combine-wide moisture percentage. Each block of data represents a fifth of a second. The legend can be edited. The Moisture Field Report displays averages for moisture and yield (bushels per acre) for each hybrid harvested. This can be viewed as a field average or ten-second instant average by moving the toggle at the top of the report.

Loads

The Loads map displays a combine head width map of the area harvested for each defined load. Each load is indicated by a different color on the map. The legend cannot be edited. The report for the load map displays acres, yield (bushels per acre), moisture, bushels, and wet pounds for each load. You may enter actual weights to perform a Loads True Up (see Appendix A, following). Load names can also be edited by pressing a load in the field report.

For more information, please reference **Appendix A** on the next page.

Combine Speed

The combine speed map displays the speed of the combine as reported by the GPS connected to the FieldView™ Drive. The legend may be edited. There is no speed field report.

Appendix A

How to Perform a "True Up" from the Cab

Summary: Simple operation of Climate FieldView™ Drive and Original Equipment Manufacturer accuracy are two important components of Harvest. The Combine Total and Loads True Up features are important examples of those components. With the push of a button, you can make minor adjustments to your crop constants using actual weights from your grain cart or elevator tickets. Performing a True Up will automatically update the yield maps on all iPads. This appendix will walk you through the best practices and steps required to utilize these features.

Note:

Because auger and scale carts can generate errors, we recommend that the following conditions are met before performing a Loads True Up:

1. Harvest one (1) load of greater than 25,000 lbs and enter the actual into the load list, or
2. Harvest three (3) or more loads of greater than 10,000 lbs each and enter the actuals into the load list.

Best Practice Steps for Performing All True Ups:

1. Connect your iPad to the Climate FieldView Drive in the Combine.
2. Activate the field that you will be truing up.
3. Enter the Load List by selecting the *Load* menu at the bottom of the Climate FieldView map (Figure 1).
4. Enter the actual pounds, by either:
   A. Selecting the individual load(s) and enter *Actual*. Then press the *Loads True Up* button.
   B. Selecting the *Combine Total* box at the bottom of the load list and enter the total pounds for the field for that combine.

Figure 1
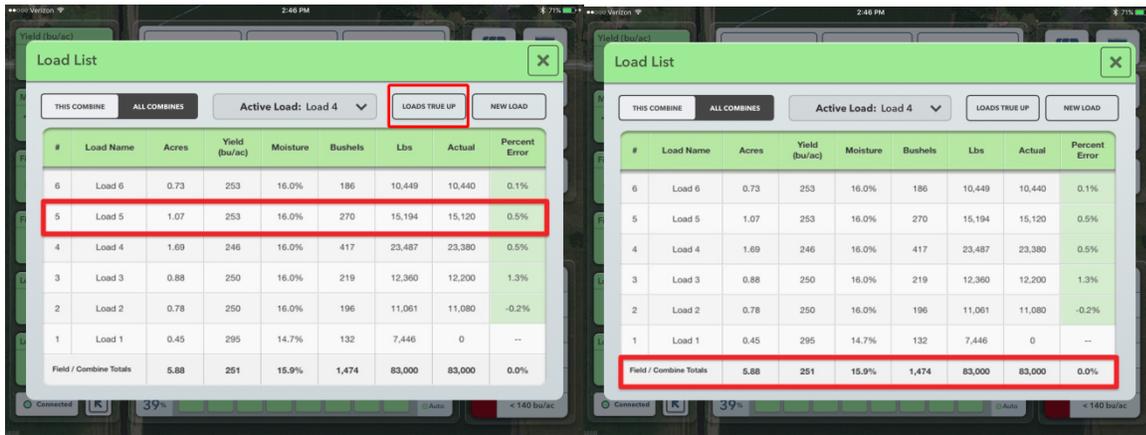
Once a True Up is complete, a new crop constant will be calculated and applied to the entire field. The primary iPad's Yield Map will automatically rebuild and the next CloudSync will copy this file to the cloud, updating all harvest reports. The maps on all secondary iPads will be updated automatically when updated files are downloaded from the cloud via CloudSync.

Notes:

1. Remember that each combine has a unique crop constant; therefore, if multiple combines harvested in the same field, the weights harvested by each combine must be kept separate to use the combine totals True Up feature.
2. A True Up changes the crop constant for the applicable field and changes the active crop constant that will be used in the next field.

Saving Files Into the Climate FieldView™ Cab
app from Email

FieldView users can save email .ZIP file attachments that contain Climate FieldView™ Drive field (.DAT) files, shape files, or 20/20 field (.DAT) files into the FieldView app directly.

From the Mail app, long press on an attached .ZIP file that contains the files. Next, select *Open in FieldView* from the options presented. The FieldView app will then open with a message that says, "Importing Files." All shape files imported via email will be considered prescriptions, and will be available in the Fields menu to be assigned to a field name. Additionally, you can delete these files from the iPad in the Settings menu (under Prescriptions).

Shape files that have spatial data that matches to a field will automatically attach themselves to that field. If the file does not spatially match a field, you must upload the file via the FieldView website. To view the shape file, select it from the Imported & RX page in the Map screen.
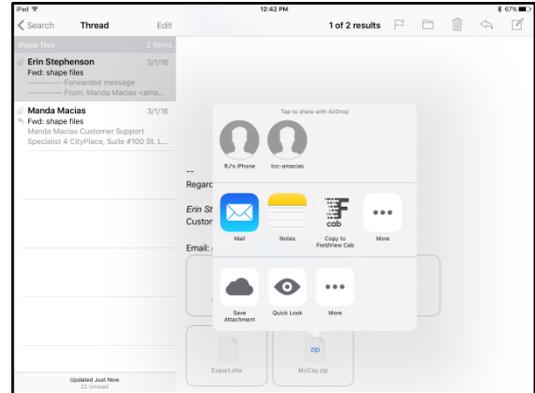
**Field Files will import and build maps on the iPad.**

NOTE: Use this to import field files that have been shared from a different FieldView account.

NOTE: This feature is only available if the user has set up email through the iPad's Mail application; it will not work with a third-party email app from the app store.
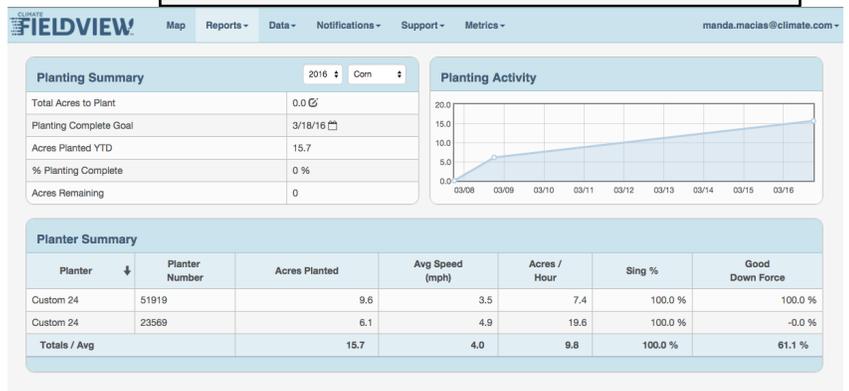
FieldView Web

Logging Into FieldView Web

Navigate your Internet browser to https://fieldviewplus.com to log in. Log in using the same username and password that were used to login on the Climate FieldView™ Cab app on the iPad. (The username for the account is displayed at the bottom center of the home screen on the FieldView™ Cab app.) Alternately, if you have a Climate login, you may use that username and password to log into FieldView Web.
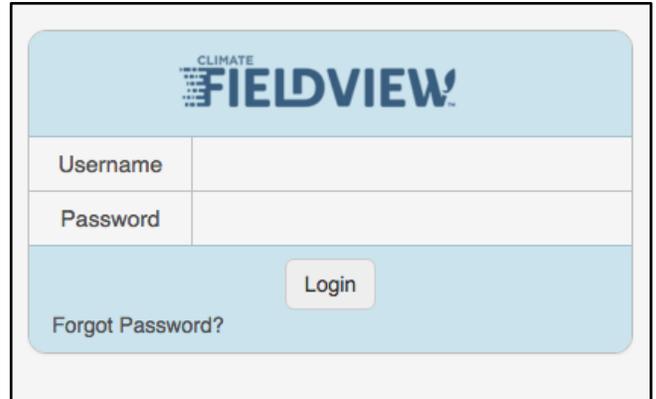
Reports

The Summary page is a powerful reporting tool for both planting and harvesting information. The initial screen displayed at login shows a summary of planting or harvest progress, depending on the current season. From the initial dashboard page, you can view a graph of planting/harvesting activity as well as a summary of each planter and combine. The information displayed on this page is crop- and year-specific. Change the year and crop type by clicking on the down arrow next to the year or crop type.

 Metrics that Climate FieldView™ Drive cannot measure will default to either 100% or 0%; Singulation, Spacing, and Good DownForce default to 100%, while Loss of GC and Excess DownForce default to 0%.

The Planting and Harvest Reports in FieldView Web organize reports by different types of information. All reports are crop type-specific. Select a different crop by clicking on the down arrow next to the active crop type. Use the filter button to organize reports by client names, farm names, field names, specific dates, or by a specific planter or combine. All reports can be emailed as .PDF, .CSV, or .XLS files by clicking on the Share button located near the top right-hand corner of the screen.

Planting Report

By Field displays planting date, acres planted, and several planter/operator performance measures for each field.

By Planter displays acres and the average for each planter.

FieldView Web

By Hybrid displays each hybrid planted for every field along with the acres, population, singulation, and good spacing for each hybrid. When using a Drive, singulation, spacing, loss of ground contact, good downforce, and excess downforce will display "0" because the Drive does not record these attributes.

Harvest Report

By Field displays the date harvested, acres harvested, moisture, bushels, and wet pounds.

By Combine displays the number of acres harvested, average yield, average moisture, total dry bushels, and total wet pounds for a particular combine.

By Hybrid displays all hybrids harvested across your operation as well as the number of acres, average moisture, dry bushels, and total wet pounds for each hybrid.

By Population displays acres, average yield, average moisture, total dry bushels, and total wet pounds for a planted population range. Edit the range by selecting the Edit button at the top of the list.

By Load displays the load list for each field. Each load includes acres, yield, moisture, bushels, recorded pounds, actual pounds, and the error percent.

Map

The map allows users to view field locations and field pins, and view and analyze field maps.

FieldView Web

Map, continued

From the map, select a field by choosing it from the list on the left side of the screen or clicking on a field marker on the map. Upon selecting a field the map will zoom to display the chosen field.

Machine locations, Field Pins, Field Markers (the location of fields on the map), and Field Boundaries can be toggled on or off by choosing the *Map Layers* button.

Once you have selected a field, planting and harvest maps will display if data is available for the field. Select the Year/Crop and Planting or Harvest map type at the top of the screen. Customize map legends by pressing on *Edit Legend* on the top of the legend displayed in the lower left of the map. To the upper right of the map are Zoom buttons, Map Layers button, Field Report button, Polygon Report Tool, and the Prescription Creation button.

FieldView Web

Field Report

Select the *Field Report* button to bring up a report based on data for the field being viewed. This report will include the total field acres, overall average yield, moisture, average speed, and a breakdown of soil zones by acreage and average yield.

NOTE: At this time, reports are primarily designed for Harvest data.

	23.3 Acres	257.2 Avg Yield (bu/ac)	25.9% Moisture	3.6 AvgMph

| Soil Type	Acres	Avg Yield	Moisture
Miami-Hennepin complex, 20 to 35 percent slopes	0.3	152.2	25.0
Sawmill silty clay loam, frequently flooded	10.0	250.8	25.9
Miami silt loam, 10 to 15 percent slopes, eroded	1.5	254.5	26.0
Birkbeck silt loam, 5 to 10 percent slopes, eroded	5.0	261.1	26.1
Rozetta silt loam, 1 to 5 percent slopes, eroded	1.2	244.9	25.7
Sylvan silt loam, 10 to 18 percent	4.5	253.9	25.4

Polygon Report Tool

Use the Polygon Report tool to analyze yield on a portion of the field.

After clicking the Polygon Report button, click on different portions of the map to create the outer points the polygon.

Click back to the first point to complete the shape. FieldView will then give a Yield Report (see image on right) for the chosen portion of the field. The data includes acres, overall average yield, average moisture, average speed, a breakdown of soil zones by acreage and average yield. Press *Delete* to clear the report and polygon.
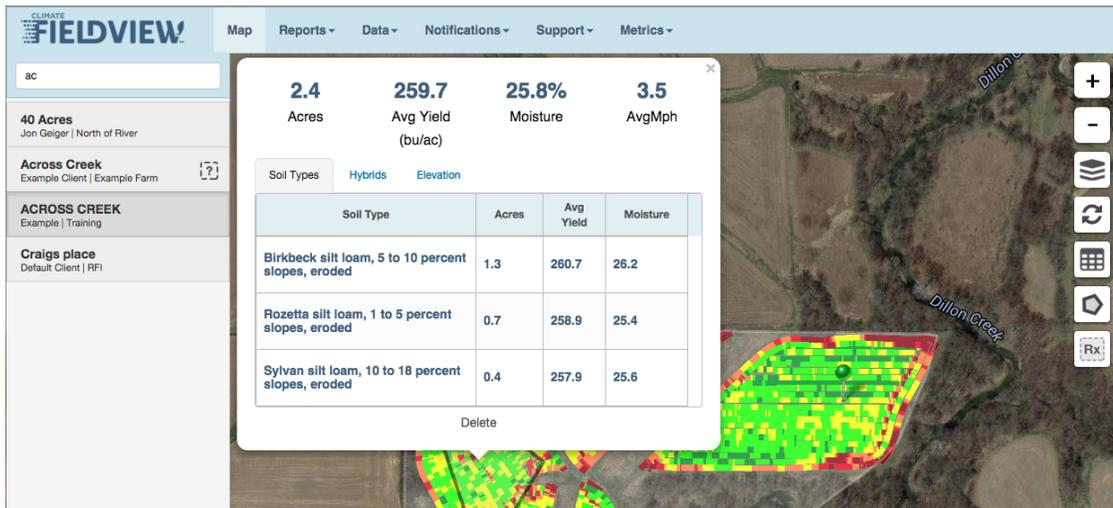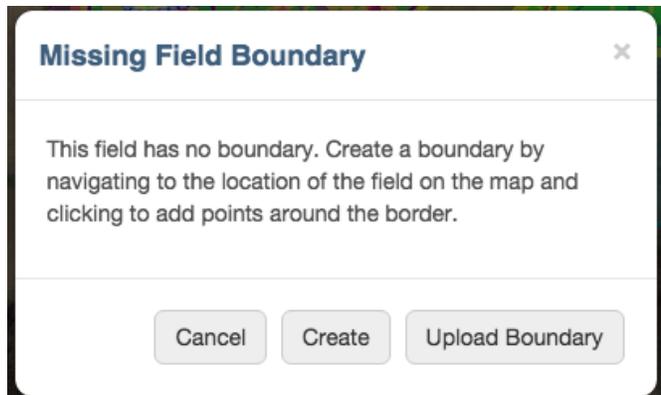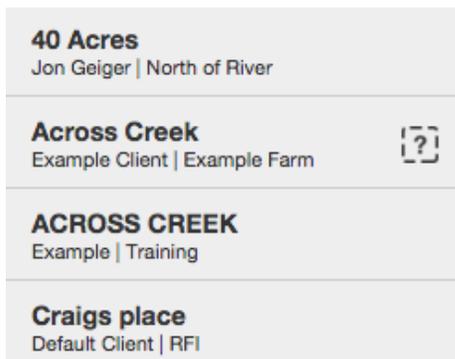
FieldView Web

Map Overlays
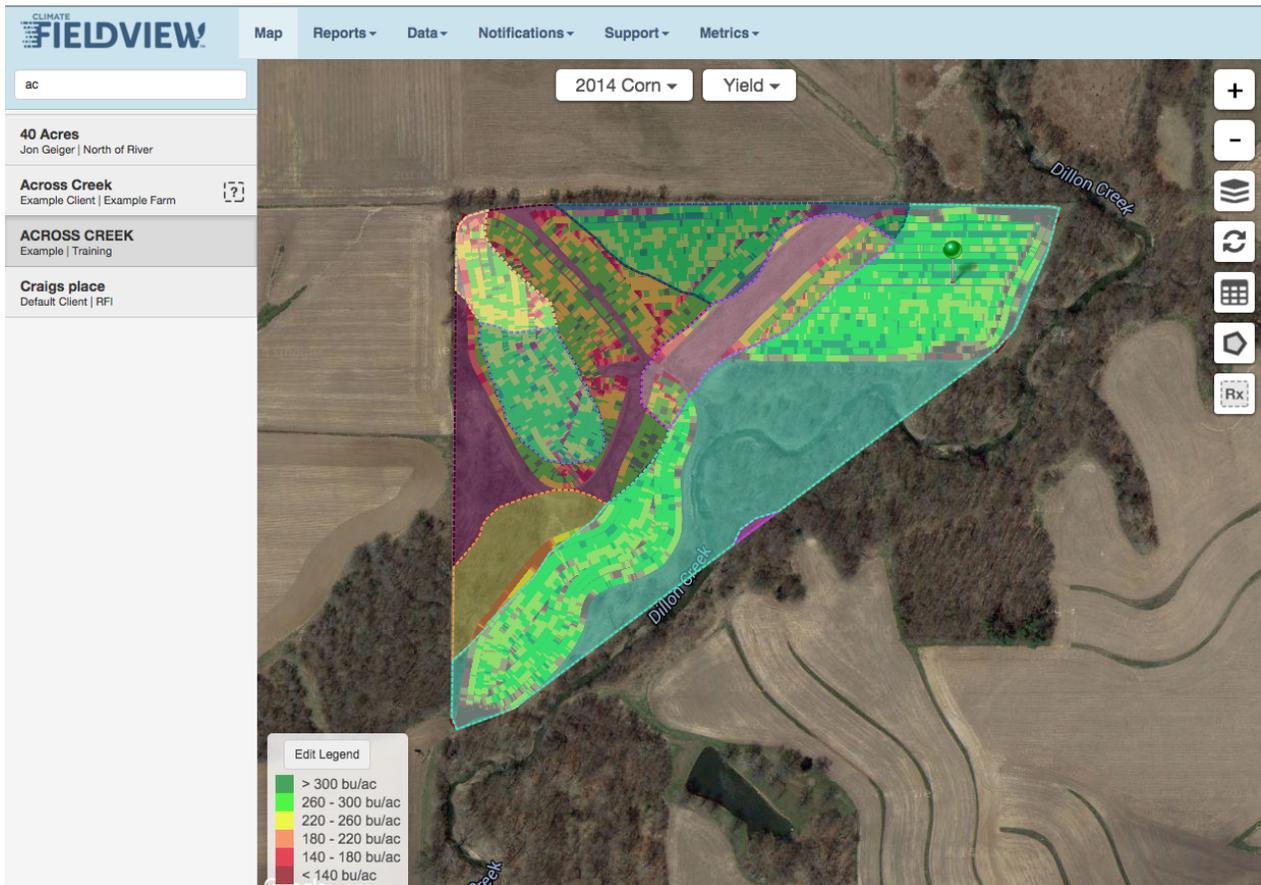
Use the *Map Layers* button to overlay soil zones and any imported maps (shape files) onto any harvest or planting map. Select any of the choices from the menu to overlay the current map.
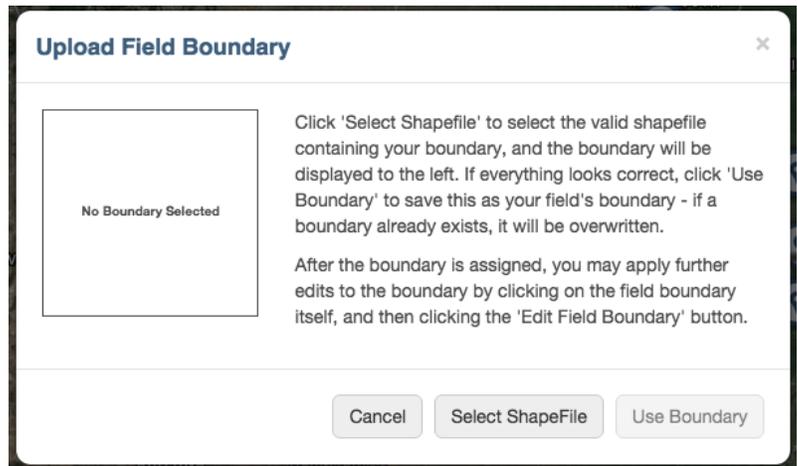
Field Boundaries

A question marks next to a field name indicates that the location of the field is unknown because it has no boundary assigned. To create or upload a boundary, click the field name.
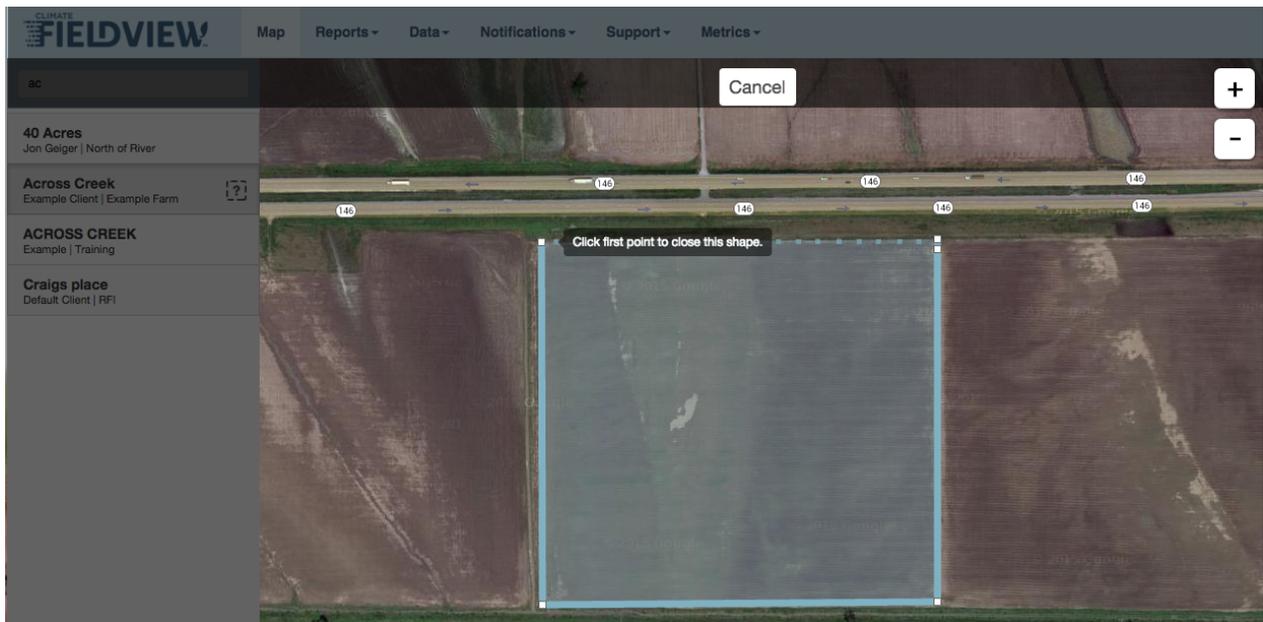
FieldView Web

Uploading Boundaries

To use an existing field boundary saved as a shape file, choose *Upload Boundary,* then *Select Shape File*. This will open the computer's file upload feature. Once the shape file is selected, you will see a picture of the boundary that will be used. Select *Use Boundary* to accept the boundary, *Select Shape File* to select a different file, or *Cancel* to exit the Boundary Upload feature.

Drawing Boundaries

To draw a new boundary for a field, select the *Create* button. Use the map to find the field location by zooming in and moving to it by clicking, holding, and dragging your mouse. Draw the field boundary by clicking around the field. Finish by clicking the first point to close the shape and save the boundary.
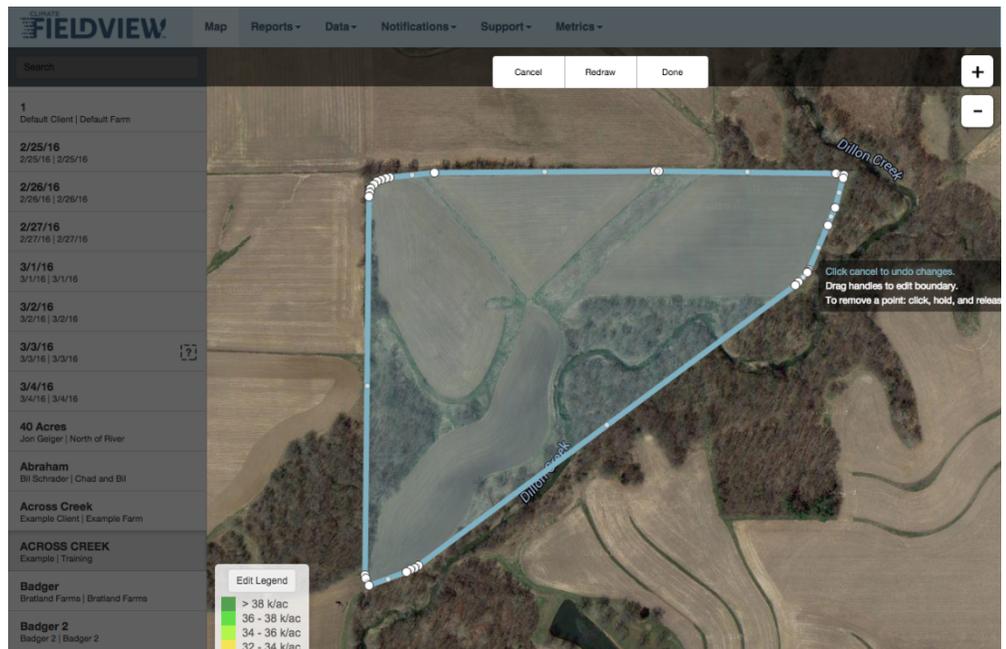
FieldView Web

Editing Field Boundaries

Use FieldView Web to edit field boundaries for any field for which FieldView has spatial data. Any edits made to a field boundary in FieldView Web will also be reflected on that field across the Climate FieldView™ platform.

Begin by selecting a field. When the field map or current boundary is loaded, click anywhere inside of the boundary. This will bring up the option to Edit Field Boundary.
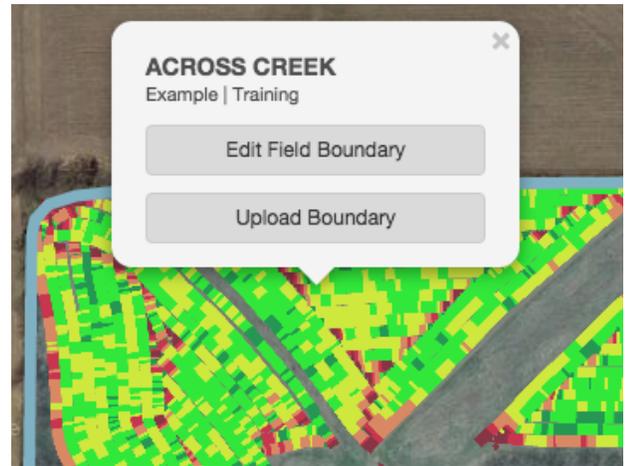
To move boundaries, click and hold on any dot. Any time you move a dot, two more dots will appear, one on either side. White dots can be deleted by clicking—holding for a few seconds—then releasing the mouse button.

Instead of editing the existing boundary, you can redraw the boundary altogether by selecting *Redraw* at the top of the page. When finished editing the boundary, press *Done*.

Note: If a boundary intersects itself, an error will occur and the boundary will have to be edited.
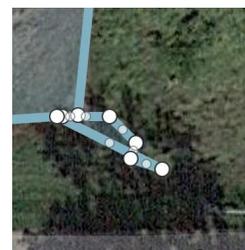
FieldView Web

Data Selection

The Data tab allows the user to access the Importer, Field Manager, and Data Manager pages.

Import

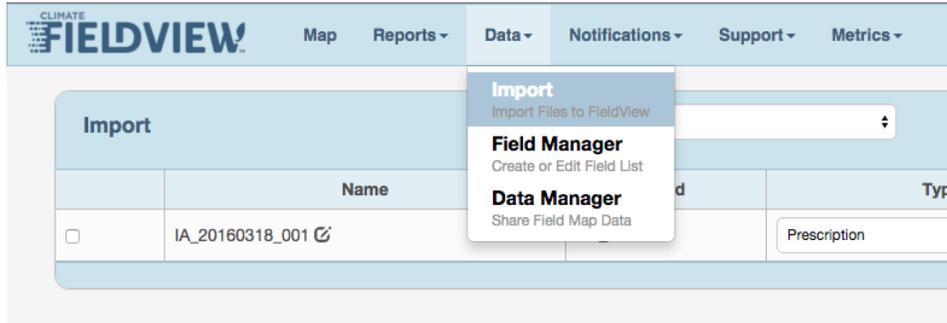Imporer allows Climate FieldView^TM Plus users to import ShapeFiles, GeoTiff files, and JPEG2 files to be synced to the Climate FieldView^TM Cab app. Use the *Add Files* button to select the files to upload. (Shape files must use the .SHP, .SHX, or .DBF file extension). All files and file extensions must be selected or all files must be zipped into a single folder.

The files will be matched to the appropriate field using location data in the file, if available. If the field cannot be matched, manually select the appropriate field name. Once the files are uploaded, designate each file to either be used as a prescription map or viewed as an imported map. Any file that needs to be transferred to a 20/20 display for control purposes (e.g., a prescription for application control or a boundary for clutch control) should be marked as a prescription map. Other files should be marked as imported maps, and will then appear as a map option for the appropriate field in the FieldView Cab™ app. Once a file is imported, it will sync to the FieldView Cab app at the next CloudSync.
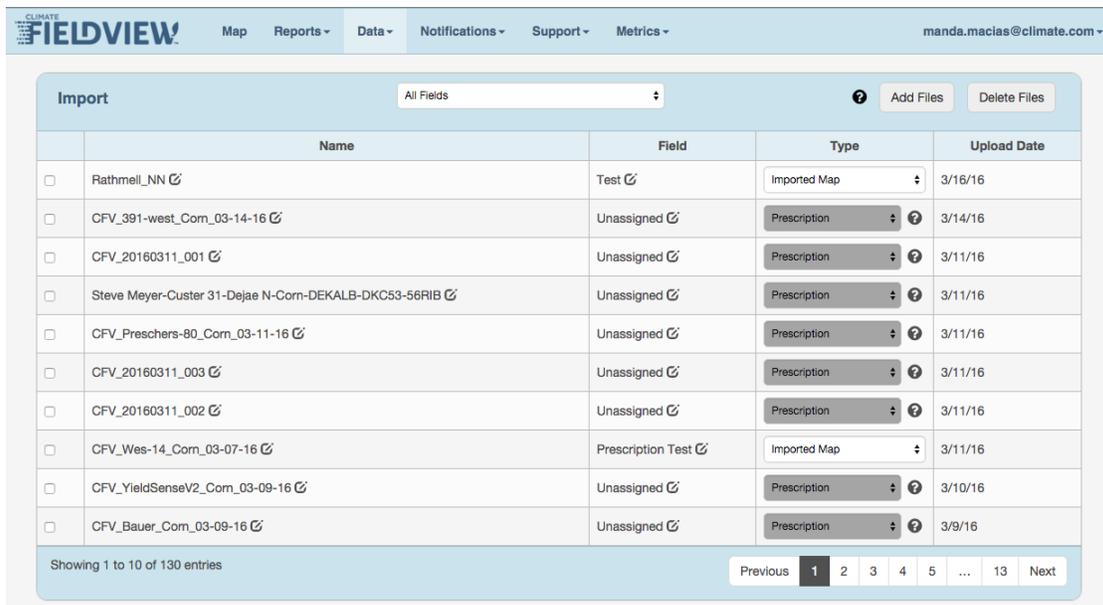
FieldView Web

Field Manager

From the Field Manager screen, you can centrally manage the CFF (Client, Farm, and Field) list for your operation and keep this list in sync across the Climate FieldView™ platform. Select the *Action* button to view options for managing the CFF list. All changes to the CFF list will sync to the FieldView Cab app on the next CloudSync.

Add: Create a new field manually. Field Names may be repeated if a different Client or Farm Name is used.

Edit: Change or create a new Client or Farm name for the field. To edit the Field Name, click on the notepad and pencil next to each Field Name.

Merge: Select two fields to merge together by checking the boxes next to each field name. Next, select *Merge* from the Action button. Select one Field Name to merge both fields' data into that field; the other Field Name will be deleted. Merge will combine the fields in FieldView Web; on the next cloud sync, the FieldView Cab app will rebuild the combined maps from the current calendar year into a single field. **Note:** If the merged fields contain data from previous years, you must clear and rebuild the maps in the FieldView Cab app in order for the merged fields to be displayed correctly.

Delete: The field selected will be completely removed from the FieldView Cab app website as well as Climate, FieldView, and any 20/20s. All data from all years will also be deleted.

Request Field Import: Use this option to request that fields/boundaries created by another person in SST Summit, MapShots AgStudio, SSI Agvance Mapping, or AgIntegrated by another person be sent to your FieldView Web account, simply by entering an email address. Information will be included in the email specifying the username to which the information should be sent.

Import: Use this option to access fields that have been sent to FieldView from either SST Summit, MapShots AgStudio, SSI Agvance Mapping, or AgIntegrated. Select the fields you want to import into FieldView.

FieldView Web

Data Manager

The Data Manager provides access to the field data for each field. This data can be exported to a computer for analysis or shared with a third party via email.
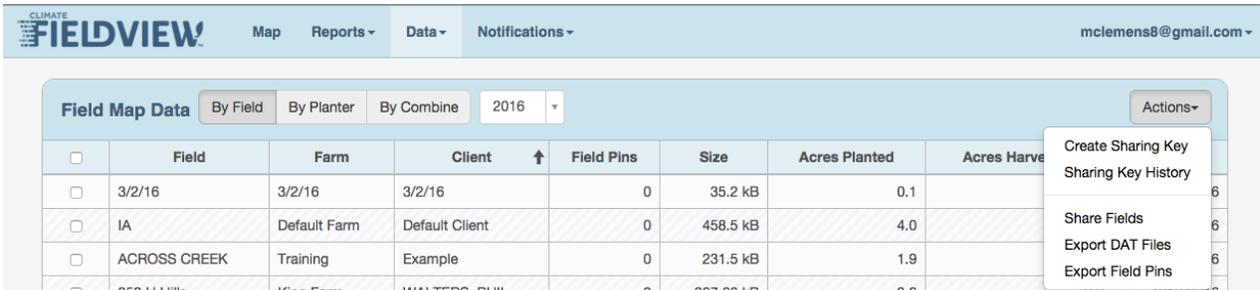
Sharing Key: Creates a Sharing Key that a trusted partner can enter directly into compatible third-party mapping software to retrieve Field Map files. The key will be emailed to your partner and can then be used with SST Summit, MapShots AgStudio, SSI Agvance Mapping, or AgIntegrated. The key is good for one year from the date of creation and provides access to both planting and harvest files. From this menu you can keep track of who has a sharing key for the account, renew sharing keys by extending the expiration date by one year, and revoke a recipient's sharing key access.

Share Fields: Send someone field data by entering their email address. The recipient of the email will be sent an Internet link from which they can download the field data for the selected fields to their computer. The sender will receive a confirmation email; Internet links expire after thirty days.

The link can also be opened on an iPad and imported into the Climate FieldView™ Cab app by pushing the link in the email and choosing to open in FieldView™ Cab.

Export DAT Files: This will download all field data for the selected fields to the computer being used. This feature will not work with a tablet. Data will be downloaded into a zipped file.

Export Field Pins: This will download all the information from field pins to a .CSV file.

FieldView Web

Notifications

This feature lets you send text or email alerts to multiple accounts/smartphones.

Text Alerts

Text Alerts provide users and other interested parties with real-time information on their smart phones. From this page, you can select who will receive the information, what information they will receive, and when it will be sent. Text Alerts can be set up for both Planting and Harvesting. For growers with multiple planters, this alert can be set up for each planter.
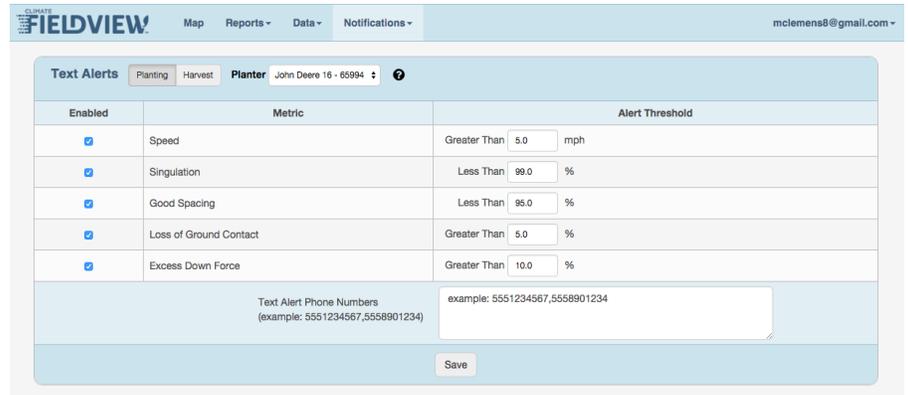
Email Reports

Email reports allow the grower to have planter or combine summary reports sent via email. Select the frequency of the reports and what planter(s) or combine(s) should be included.

Account

Click on the username in the top right corner of the page to show the account's expiration date. Clicking on *Settings* provides the option to change to metric units. Clicking on *Help* takes the user to the FieldView Plus Technical Support documents.

Other Features

Syncing Data from Multiple Climate FieldView™ Drives
For operations with multiple planters/combines, Climate FieldView^{TM} Plus allows all iPads in the operation to be kept in sync with data from all planters/combines that are logged into the same account. You must have FieldView^{TM} Plus in order to sync multiple iPads.

Data Plans
Contact your cellular provider regarding your data plan. Typically, a planting season will require 2 GB–4 GB of data per month for a single Drive. Additional iPads, Coverage Streaming, and RemoteView will all take additional data.

Setting Up Email on the iPad
Certain functions in FieldView (e.g., contacting tech support from within the app or importing prescriptions into FieldView from email) are designed to use the iPad's Mail function, and will not work properly with a third-party email app from the app store. To set up Mail, follow these steps:

1. On the iPad, select the *SETTINGS* icon.
2. On the left, select *MAIL, CONTACTS, CALENDARS*.
3. On the right, select *ADD ACCOUNT* under Accounts.
4. Select the type of account to add (Gmail, Yahoo, etc.).
5. Enter the required information as prompted (name, email address, password, etc.).
6. Use the email icon on the iPad to access email from this account on the iPad.