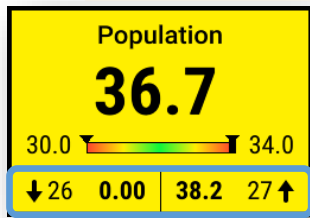


20|20 GEN 3—HOME SCREEN LAYOUT [2020.0.X SOFTWARE]



High and low rows and data for those rows.

There are 3 types of default dashboards: **Standard** - includes a large map with metrics on both sides (displayed below), **Metrics**—small map with various metrics, or **Large Map**—full screen map.

The **Notification Center** button on the home page will give a number indicating the number of **Event Codes** that have taken place since the last reset.

Metrics buttons or widgets display a variety of data. Rows that exceed alarm values will turn yellow while rows that exceed alert values will turn red. Touching the button will open the **Row Detail** screen.



Button in upper right corner will open **GPS Communication** screen to access **GPS** and **WiFi** settings.

Control buttons or widgets display settings of the system. Touching the button will open the **Control Screen**.



Some large metric buttons display a **Distribution Chart** showing each row represented by a triangle and the average of all rows by a vertical mark.

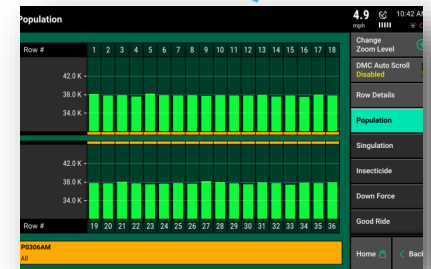
Yellow rows are swathed off.

Active hybrid displayed: **orange** represents hybrid 1. For multi-hybrid, hybrid 2 rows will be represented by **blue**.

The **DashBoard Mini Chart** shows a bar chart for one of the metrics of the 20|20 for each row. Rows that exceed alert values will turn yellow while rows that exceed alarm values will turn red.

Note: Alert and Alarm values can be set in the **Crops** menu—**Setup>Crops** then select **Limit Adjustment, Liquid Alerts, SmartFirmer, or FurrowForce**.

This button selects the metric type displayed in the **Mini Chart**. Press this button to change the metric and to display **Row Detail Screen** of the current metric. See **Quick Reference Guide—Row Detail** for more information.



20|20 GEN 3—HOME SCREEN MAP [2020.0.X SOFTWARE]

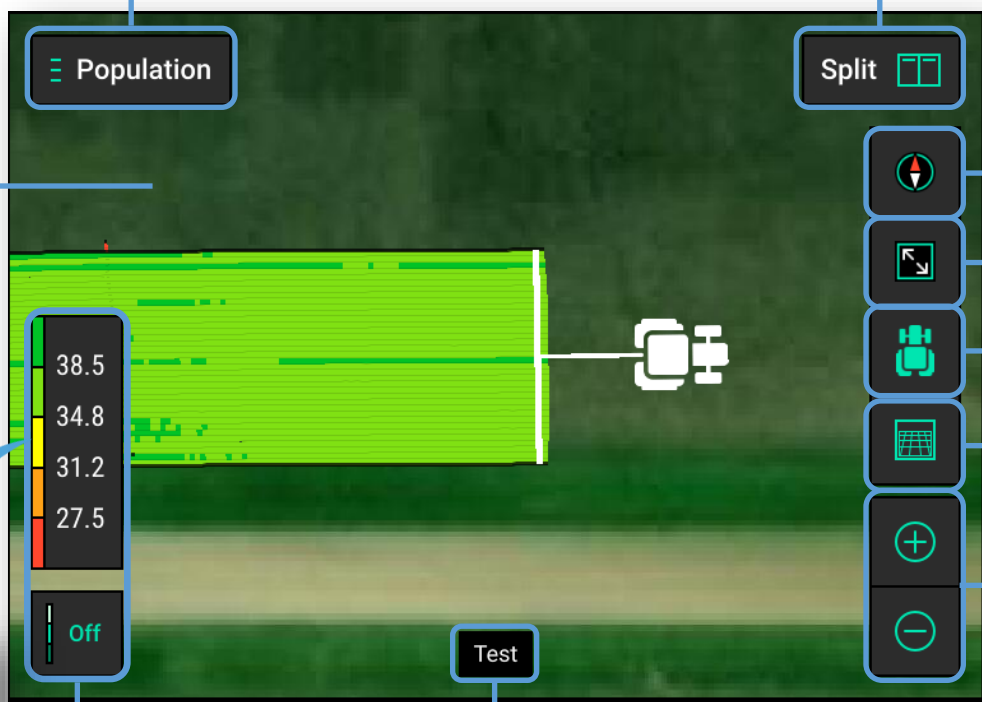
Selects map layer: tap to select different layer.
To change what layers are available, navigate to **Setup>Systems>Display>Map Layers**.

Toggle between **Split** (two maps) and **Full** (one map) settings.

Switch between 2 orientation modes: **North Facing** (map always orients with North up) and **Implement Facing** (Tractor icon always faces up)

The map can be manipulated with finger gestures: move the map location with a single finger drag, zoom in and out with two finger pinch, rotate orientation by moving two fingers around each other.

Button Press



Toggles the map legend on and off. Most legends can be edited. There are two ways to edit legends:

1. Hold a finger on the legend and slide it up and down to adjust the high and low ends of the legend.
2. Tap on the legend to adjust the High & Low values, number of steps, and use the auto adjust feature.

Active field name, pressing this button opens the Field Setup Screen.

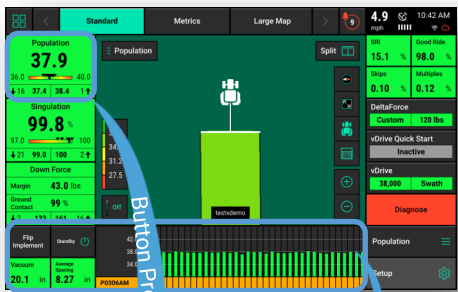
Zooms to a view where the entire field is displayed.

Pressing this button will cause the tractor/planter icon to stay centered in the screen. Additionally, the zoom level will be reset and zoomed in on the tractor icon

The **Perspective View** button will toggle the map view angle

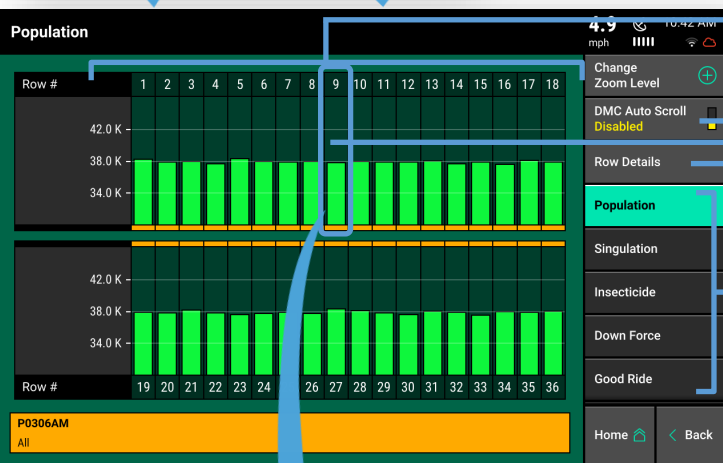
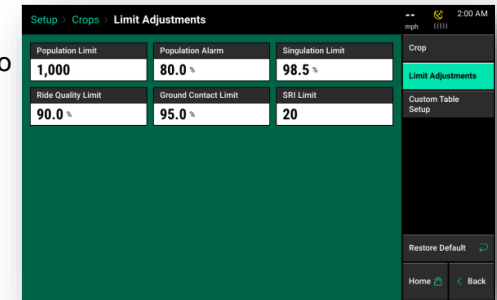
Adjusts **Zoom** level of map

20|20 GEN 3—ROW DETAIL SCREEN [2020.0.X SOFTWARE]



1 Row by row details showing a variety of metrics are available to help the operator better understand and respond to conditions. From the **Home Screen**, touch any metric button or the **MiniChart** at the bottom of the screen.

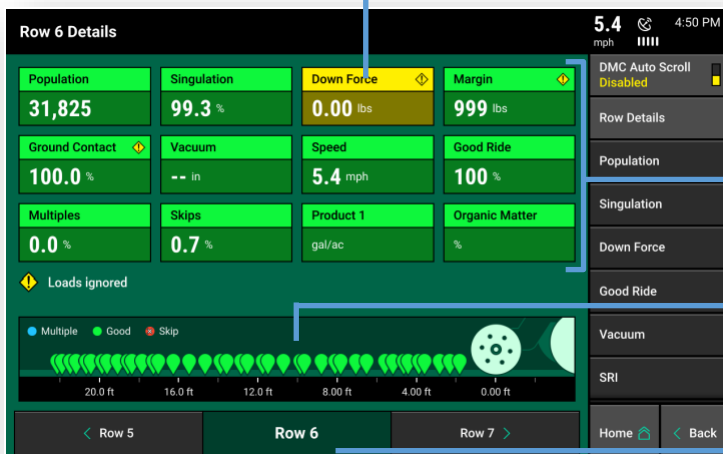
Note: Alarm and Alert values can be set in the **Crops** menu to change when metrics turn yellow and red (**Setup>Crops>Limit Adjustments**). See **20|20 Operators Guide for Planters** for more information.



2 On the selection page a larger **Row by Row Chart** will be displayed. DMC Auto Scroll allows you to choose which metrics scroll through automatically on the Mini Chart located on the Home Screen.

Detailed information for each planter row can also be viewed on a **Row Details Page**. Access the Row Details screen by either selecting a row on the Row by Row chart or touching the Row **Details** button and then choosing the desired row to display the Row Detail page.

On the **Navigation Pane** on the right hand side of the screen, select a different metric type to be displayed. Additional metrics are available if you use a finger to scroll the **Navigation Pane** downward. Once a different metric has been selected, press "Home" to go back to the home page and the **Mini Chart** will now display the new metric (unless DMC Auto Scroll is selected).



3 Rows that exceed **alert** values will turn **yellow** while rows that exceed **alarm** values will turn **red**. The **Row Details** screen displays all measurements available for that particular row including **Population, Singulation, Skips & Multiples, Speed,** and the **Live Seeds Display**. Other metrics such as down force or vacuum will only be displayed if the appropriate sensor is installed on that row.

Different color pins represent different singulation issues. The legend is displayed above the seed display. Pressing on the **Live Seed Display** will pause the screen so patterns can be evaluated. Press again to restart it.

The buttons showing row numbers at the bottom of the screen allow the operator to navigate to other rows.

20|20 GEN 3—HOME SCREEN CUSTOMIZATION [2020.0.X SOFTWARE]

The Home Screen comes with 3 default layouts: **Standard**, **Metrics**, and **Large Map**. Each of these layouts can be edited. Additionally, new layouts can be added to fit the needs of different operators or situations.

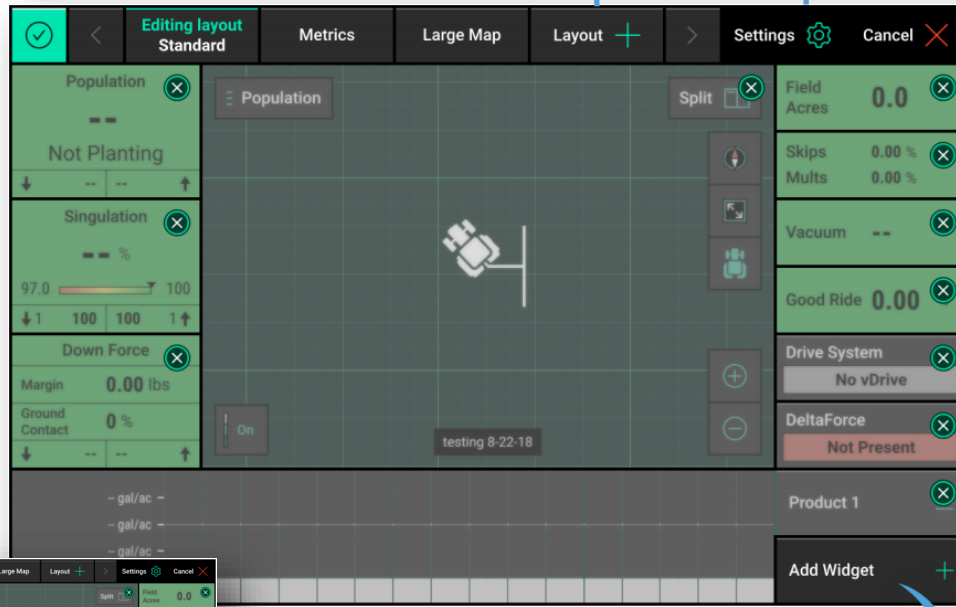
**START
HERE**

1 To begin the process of customizing the home screen, select the button in the top left hand corner of the **Home screen**.

“Editing Layout” indicates which layout is currently being edited, any other layout can be selected from the top bar.

New Layouts can be added by pressing the “Layout +” button at the top of the screen. Up to eight home screen layouts can be created for each implementation type. Layout options can be moved by pressing and dragging them to the desired position.

Settings button can be used to rename the layout and reset all screen layouts back to the factory default.



Select one of the four different types of widgets that can be added to the home screen:

Metrics—buttons that display planter information on the home screen.

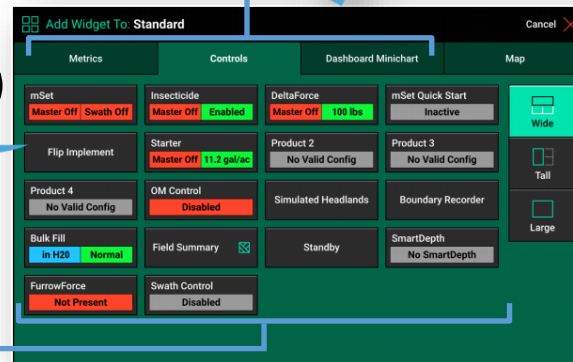
Controls—used to control the different systems that can be installed on the planter.

Dashboard Minichart—Add either a Dashboard Minichart to the home screen or a Swath Control bar.

Map—Select the size of map to display on the home screen

Note: Definitions for the Metric and Control buttons can be found in the 2020 Operators Guide for Planters Gen 3, Appendix A – Understanding the Home Screen Buttons.

2 To begin editing the home screen, select “Add Widget”



Select a size button on the right hand side of the screen to view the widgets available in each size.

Note: some widgets are only available in specific sizes.

4 Once finished press the check mark in the top left corner to save the current layout.

3 Select a widget. That widget will be placed directly in the center of the screen. To move the widget press – hold – drag the widget to the area of the screen for it to be placed at.

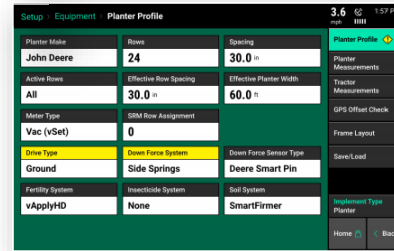
20|20 GEN 3—SETUP SCREEN [2020.0.X SOFTWARE]

START HERE



Access from Home Screen

Implement setup information displays the **width, number rows, implement make, frame type, active rows, and effective row spacing** that have been setup for the implement.



Fields: Change the active field name, assign prescription/ boundary to a field, and create or edit Client, Farm, & Field names.

Products: Assign Seeding, Insecticide, and Liquid products being applied.

Equipment: Configure the implement profile, implement measurements, tractor measurements, and switch implements.

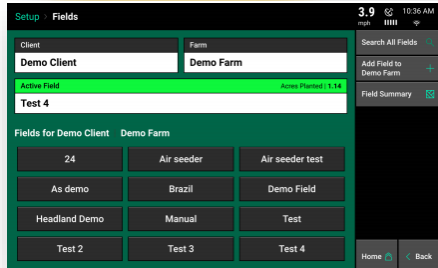
Systems: Setup and configure all products installed on the implement as well as the monitor.

Crops: Edit the active crop as well as adjusting settings that are saved for each crop type including alerts and alarms.

Set Points: Enter preset rates for controlling products

Diagnose: Troubleshooting data related to the operation of the display and products on the implement.

Data: Export, Import, and Delete data on the monitor and update software.



Displays the active field name information.

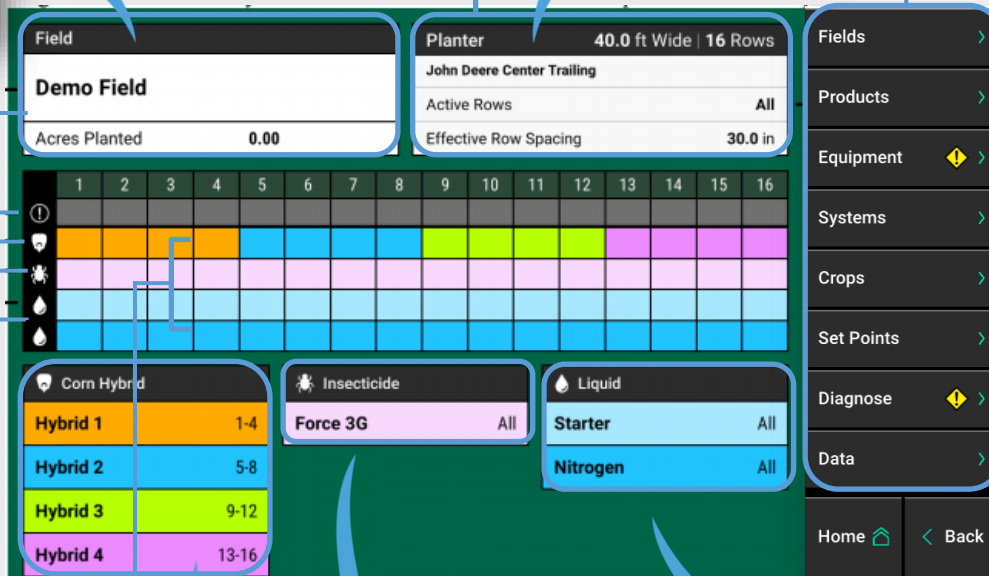
Displays each row's diagnostic color from the **diagnose** page.

Row by Row **Hybrid** Info.

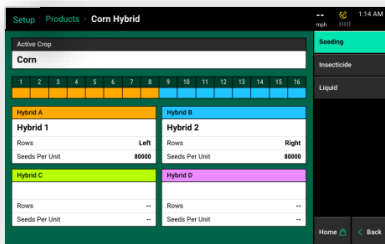
Row by Row **Insecticide** Info.

Row by Row **Liquid** Info.

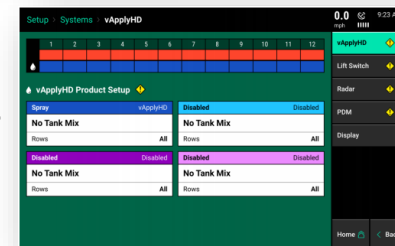
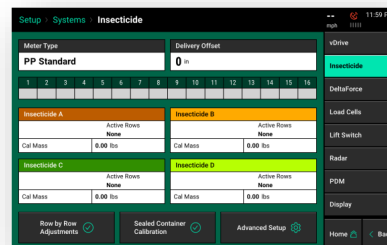
Colors correspond to the product names listed in the columns underneath the row information.



Press on **Corn Hybrid** to select seeding products and assign to drive sections.



Press on **Insecticide** to select products and assign to drive sections.



Press on **Liquid** to select liquid products and assign to drive sections.

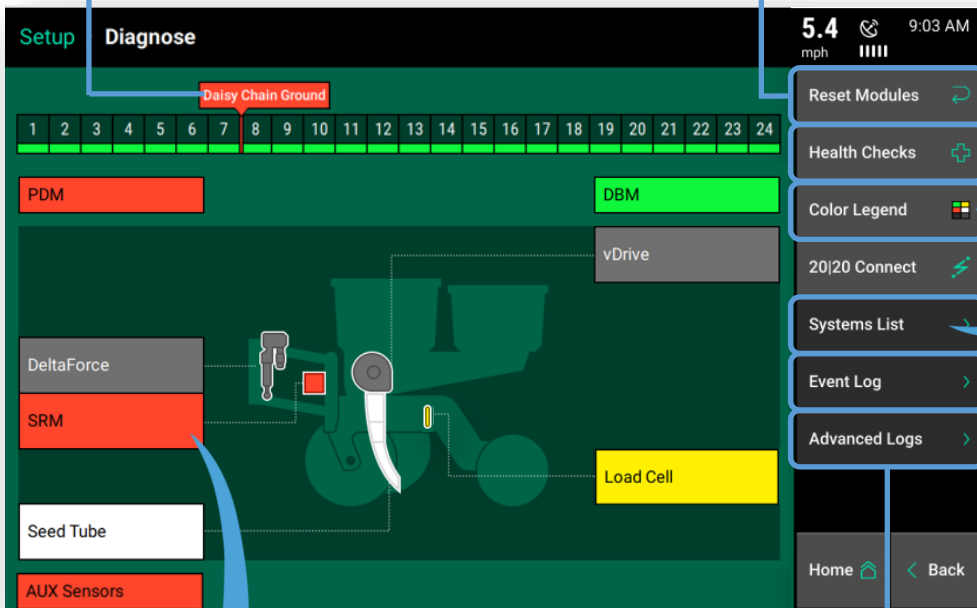
20|20 GEN 3—DIAGNOSE SCREEN [2020.0.X SOFTWARE]

The **Diagnose Menu** is the primary location for troubleshooting issues related to the operation of the 20|20 system itself and all products configured on the monitor. The schematic on this page shows each component including the **Display Base Module** that the display screen connects to. Each product that is configured is displayed along with a row unit showing a drawing of the product(s). Additionally, there is a planter bar at the top of the screen displaying the health of each row.

Reset Modules - Pressing this button breaks and reestablishes communication between the 20|20 components and is often used as a troubleshooting tool for communication issues. **Use this feature after any change to the system.**

Daisy Chain errors will appear on the planter bar diagram, as well as in the event log.

Health Checks - Perform health checks on the different systems configured on the monitor. **Health Checks** will give a report card for the system after completion. **Health Checks** should be performed at the beginning of the season, and as needed throughout. For more information on specific health checks, see the operation guide for each specific product.



Green	Device working correctly. Communications are good.
Yellow	Device or a sub-component is not 100% functional.
Red	Device has failed, or is expected but not detected.
White	Unexpected. Device is detected but is not expected.
Black	Disabled. Row has been disabled in planter config.
Gray	Not Ready. Device is being detected, updating firmware or unreachable.



Color legend is available for reference in **Diagnose Page**.

Systems List - The systems list displays information for all products giving feedback. Press **Change** at the bottom of the page to change the information being displayed. Press the Change button once to display **Voltage** readings and twice to display **Current** readings from all systems.

Select the **Event Log** button to view a list of all event codes/error codes that have happened on the system. Select any event code to view additional details for that specific code.



Advanced Logs—Only use when directed by **Product Support**.



The red Led on the **SRM** (Single Row Module), as well as other modules (vDrive, Speedtube, vApplyHD, etc.), can also be important to diagnose communication and power issues. See chart above for reference.

Light Pattern	Meaning
No Light	Device is not powered
Solid Light	Device is being updated
Fast Blink (5/sec.)	Device is powered, but lost communication
Steady Blink (1/sec.)	Device is powered and is communicating
Erratic Blink	Device is powered, but never communicated

Detail Screen—Touch on the system name to view a diagnose page with row by row details. Green boxes indicate metrics are within correct parameters. Any box that is other than green indicates an issue with the readings (see color legend).