

# February Software Update 2012-1

## Release Notes

### Important Notes:

- To ensure proper functionality, the most current version of display software, Apex™ desktop software, AMS and vehicle component software or preferred partner desktop software should be utilized. Please reference the most recent software versions at the end of this document.
- StellarSupport™ posts the latest versions of operator manuals available and includes additional information concerning changes in the new software update. Please see the following site to review and download your latest manual:
  - North America: [http://StellarSupport.com/en\\_US\\_new/categories/publications/](http://StellarSupport.com/en_US_new/categories/publications/)
  - Europe: [www.StellarSupport.com](http://www.StellarSupport.com) and choose your respective country. Find your manual under Technical Publications.
- As a reminder, since all data is stored directly in the GreenStar™ 2 1800 and GreenStar™ 3 2630 Displays, before performing any update it is recommended to back up your data to protect the information in the event of an error during the update process.
- **Software Version Compatibility Notice** – To ensure old data is compatible with the GreenStar™ 3 2630 Display when upgraded to Software Update 12-1, Apex must also be upgraded to the latest version. Also, a GreenStar™ 3 2630 Display will not be able to seamlessly revert back to previous software versions once Software Update 12-1 and data from the USB drive is loaded to the display. In this case, updated data will not work with the reverted software until a particular file on the USB drive is modified. To ensure data compatibility with a reverted display, please contact your John Deere dealer.
- Activations are non-transferrable in the event of lost, stolen, or destroyed equipment. It is recommended to insure your display at full value, including activations.
- Please see the most recent release of Operator Manuals for the most up to date information on the functionality and features of new enhancement releases.

### Customer Contact Center Information

Web: [www.StellarSupport.com](http://www.StellarSupport.com)  
E-mail: [GreenStar@JohnDeere.com](mailto:GreenStar@JohnDeere.com)  
North America: SUPPORT 1-888-GRN-STAR (1-888-476-7827)  
ACTIVATIONS: 1-888-953-3373  
Australia: 0011-800-833-3373  
New Zealand: 00-800-0000-3333  
Brazil: 0-800-891-4031  
Mexico: 866-582-4068  
Argentina: 0800-444-9126  
South Africa: 0800-983-821  
Zimbabwe: (Access code: 110-98990) 888-983-3373  
Zambia: (Access code: 00-899) 888-923-3373

*\*\*Countries w/ Access codes – Dial access code first and once prompted, enter the toll free number.*

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### Release Notice

These are the software update release notes for the GreenStar™ Displays and additional AMS products. Apex™ Farm Management software release notes can be found on <http://StellarSupport.com>.

## Displays: GreenStar™ 3 2630 Display

### New Features

**John Deere Remote Display Access (RDA)** – John Deere Remote Display Access enables JDLink™ users to view the operating GreenStar™ 3 2630 Display from a remote location. The remote user will be able to efficiently assist in GreenStar™ Display technology optimization, improve problem resolution cycle time, and improve satisfaction with precision technology products. The RDA software is now available within the GreenStar™ 3 2630 Display. A separate subscription, JDLink™ MTG hardware vehicle kit and an additional Ethernet cable is required to access this application. MTG (JDLink™ controller) serial number must be 700000 and above to be compatible with RDA. Please see your John Deere Dealer for more information.

**John Deere Implement Detection** – The GreenStar™ 3 2630 Display will now recognize any ISO implement automatically and auto-populate all machine settings that are sent through the ISOBUS connection to the display. Values can be changed on the display and depending on the ISO implement they could also get saved back to the implement controller. All machine settings - except for overlap settings for John Deere Section Control – will now be auto-populated when either a machine name is manually selected or an ISO implement is connected.

**Setup Data Backup** – Setup data on GreenStar™ 3 2630 Displays will now be backed up at each successful warm or cold boot and will be recoverable in the event of data corruption.

- Note: Data recorded or entered since the last successful boot will not be recovered.

### Resolved Items

**Machine/Implement Detection For 00 & 10 Series Combines Resolved** – GreenStar™ 3 2630 Displays will now correctly detect a combine when a warm boot is performed on a display connected to a 00 or 10 series combine.

### Informational Items

**Out of the Box Setup Data Now Translated** – When changing languages on a display, out of the box setup data will now also be translated to the newly selected language.

**Chinese Language Now Supported** – The GreenStar™ 3 2630 Display will now be able to show simplified Chinese characters. Chinese character input, however, is not supported.

**Software Version Compatibility Notice** – To ensure old data is compatible with the GreenStar™ 3 2630 Display when upgraded to Software Update 12-1, Apex must also be upgraded to the latest version. Also, a GreenStar™ 3 2630 Display will not be able to seamlessly revert back to previous software versions once Software Update 12-1 and data from the USB drive is loaded to the display. In this case, updated data will not work with the reverted software until a particular file on the USB drive is modified. To ensure data compatibility with a reverted display, please contact your John Deere dealer.

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## Displays: GreenStar™ 2 1800 Display

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### New Features

**Setup Data Backup** – Setup data on GreenStar™ 2 1800 Displays will now be backed up at each successful warm or cold boot and will be recoverable in the event of data corruption.

- Note: Data recorded or entered since the last successful boot will not be recovered.

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## Receivers: StarFire™ ITC Receiver

### Informational Items

**StarFire™ Frequency Migration** – Due to spectrum allocation in the industry, the StarFire™ network worldwide will migrate frequencies between January and March 2012. Users who do not update their receiver or power on their receiver during this timeframe will not be able to pick up StarFire™ corrections on the new frequencies. Depending on the receiver model, the user may need to update software or manually input the new frequency. Dealers should consult AMS DTAC for more information. Producers may contact their John Deere dealer or the Customer Contact Center.

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## Receivers: StarFire™ 3000 Receiver

### New Features

**Base Station Rover Access List Expanded** – The RTK base station Rover Access List has been expanded to hold up to 300 rover entries. Previous software versions supported up to 200 rover entries.

### Resolved Items

**StarFire™ 3000 RTK Line Jumps Resolved** – The RTK line jumps experienced by many producers during the past year were found to be caused by multiple issues. Improvements in the receiver software to prevent the problem include baseband measurement calculations, signal tracking logic and improved navigation checks. In some instances, base station data indicated severe shading or multipathing conditions. Dealers are encouraged to review their base station locations to ensure the best performance of the receivers. Producers or dealers can also contact the Customer Contact Center or AMS DTAC with additional questions.

**StarFire™ 3000 Receiver Power-up Issue Resolved** – Some new StarFire™ 3000 Receivers initially appeared to not power up out of the box. Units returned for warranty showed that although the receiver was powered, the software application was not loading correctly, which caused the receiver to not show up on the CAN bus via the display and the LED on the receiver to not flash. Additional LED indicators have been added to communicate this loading status. Flashing yellow, cyan or white indicate applications loading on different controllers inside the receiver.

### Informational Items

**StarFire™ Frequency Migration** – Due to spectrum allocation in the industry, the StarFire™ network worldwide will migrate frequencies between January and March 2012. Users who do not update their receiver or power on their receiver during this timeframe will not be able to pick up StarFire™ corrections on the new frequencies. Depending on the receiver model, the user may need to update software or manually input the new frequency. Dealers should consult AMS DTAC for more information. Producers may contact their John Deere dealer or the Customer Contact Center.

## Guidance: iGrade™, iTec Pro™, AutoTrac™, AutoTrac™ Universal, John Deere AutoTrac™ Controller, John Deere Active Implement Guidance

### New Features

**AutoTrac™ Slow Speed** – Integrated AutoTrac™ on 6x30 and 6R tractors now has the ability to be operated at speeds as slow as 0.1 kph with a GreenStar™ 3 CommandCenter™ running software version 2.9.1443 and newer or a GreenStar™ 3 2630 Display. This feature will require SSU software version AL211557/AL211380 for 6x30 and 6R tractors, as well as TECU/SBBC software version AL211064/AL211556 for 6R tractors. The vehicle will need to be traveling 0.5 kph for a minimum of 10 seconds before it will be allowed to lower speed to 0.1 kph and still keep AutoTrac™ engaged.

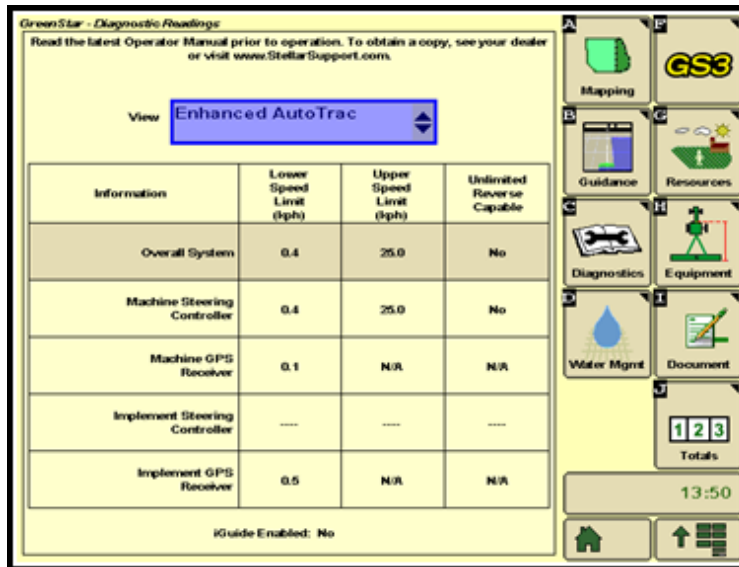
**Enhanced AutoTrac™ Diagnostics** – Producers will have access to a new Enhanced AutoTrac™ Diagnostics page when using a GreenStar™ 3 2630 Display. Producers will have access to the following information:

- **Lower Speed Limit** – This is calculated by the tractor and reflects the slowest speed AutoTrac™ is allowed to engage, as long as it is at or above 0.1 kph.
- **Upper Speed Limit** – This is calculated by the tractor and reflects the fastest speed AutoTrac™ is allowed to be engaged, as long as it is at or below 30 kph.
- **Overall System** – Displays the highest slow speed capability and lowest high speed capability. These values are calculated using the machine and implement steering controller capabilities, as well as the GPS receiver capabilities.
- **Machine Steering Controller** – Displays the slowest and fastest speeds allowed by the steering controller installed on the machine.
- **Machine GPS Receiver** – Displays the slowest and fastest speeds allowed by the machine receiver. StarFire™ iTC Receivers operating SF1, SF2, or RTK signal, as well as StarFire™ 3000 Receivers operating SF1 and SF2 signal will have a speed limit of 0.5 kph and higher. StarFire™ 3000 Receivers operating RTK signal will have a speed range limit of 0.1 kph and higher.
- **Implement Steering Controller** – Displays the slowest and fastest speeds allowed by the steering controller installed on the implement. Normal speed range of the Application Controller 1100 is 0.5 – 30 kph.
- **Implement GPS Receiver** – Displays the slowest and fastest speeds allowed by the implement receiver. StarFire™ iTC Receivers operating SF1, SF2, or RTK signal, as well as StarFire™ 3000 Receivers operating SF1 and SF2 signal will have a speed limit of 0.5 kph and higher. StarFire™ 3000 Receivers operating RTK signal will have a speed range limit of 0.1 kph and higher.

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- **iGuide™ Enabled** – Displays “Yes” when iGuide™ is turned on and “No” when iGuide™ is turned off.

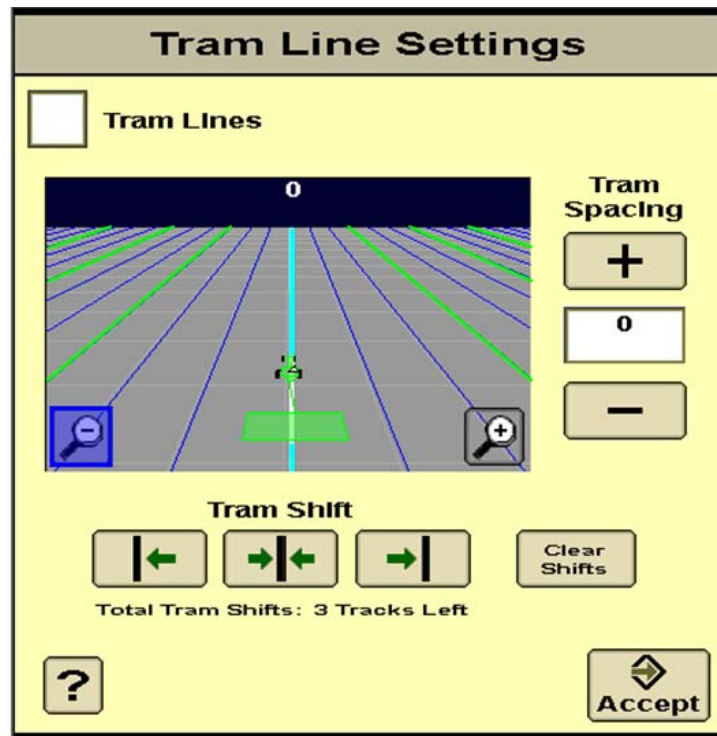


**Tram Lines Feature** – Producers can now setup and view Tram Lines using their GreenStar™ 3 2630 Display to perform AutoTrac™ in the guidance mode of Straight Track. Tram Line controls can be accessed by selecting the Tram Lines “Change” button on the Guidance Settings tab. The available controls for Tram Lines will include:

- **Tram Lines Check Box** – Selecting the Tram Lines check box will enable Tram Lines and make your Tram Lines visible on the guidance map.
- **Tram Line Controls Map** – This is an active guidance map that will reflect Tram Line changes made in real time. The guidance map will display the current guidance track number and contain zoom in/out options.
- **Tram Spacing** – Tram Spacing is the number of guidance lines between planned Tram Lines. This can be set in whole values between 0-20 guidance lines.
- **Tram Shifts & Clear Shift** – Selecting the shift left/right buttons will shift the planned Tram Lines to the left or right in 1 guidance line increments. Selecting the Center Track button will align Tram Lines with your current guidance track. Clear Shift will remove all stored Tram Line shifts for the associated guidance line.
- **Tram colors** –
  - Current Tram Line ■
    - Represents the Tram Line you are currently tracking.
  - Planned Tram Lines ■
    - Represents projected Tram paths, using stored Tram Spacing and Tram Shift settings.

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**John Deere Active Implement Guidance** – iSteer™ is now called John Deere Active Implement Guidance and is compatible with the following steering systems and components:

- a- AutoTrac™ Universal
- b- John Deere AutoTrac™ Controller
- c- GreenStar™ 2 1800 Display
- d- GreenStar™ 3 CommandCenter™ Display
- e- External Open Center SCV Valve (new on price pages)
- f- External Closed Center SCV Valve (new on price pages)
- g- External SCV Controller (new on price pages)

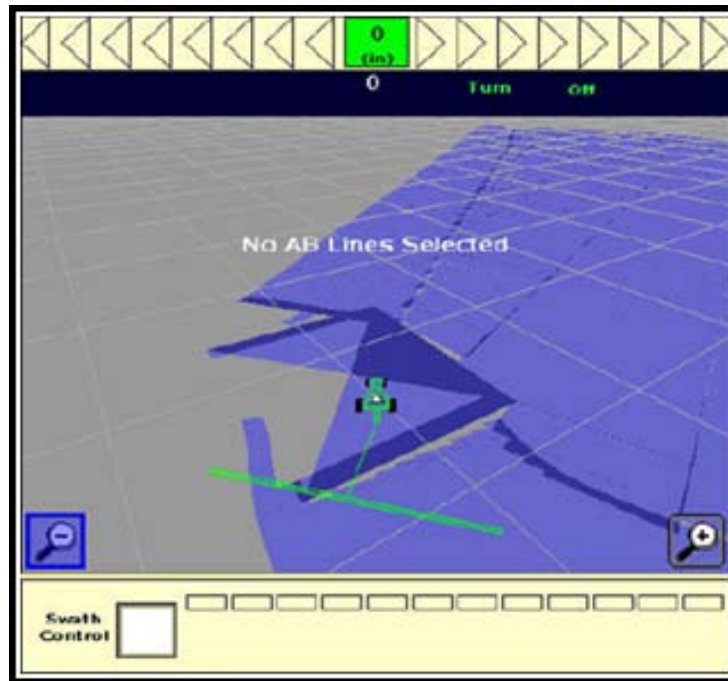
This new compatibility of steering systems and components will allow producers to utilize John Deere Active Implement Guidance with older John Deere and non-John Deere Tractors.

## Resolved Items

**Hour Glass Map Flips** – Non-AutoTrac™ machines and machines running an AutoTrac™ Universal will now experience fewer occurrences of the hour glass map flip. These occurrences will be greatly reduced in the instances where the producer drives in reverse and then drives forward because the last known direction of travel will be stored on the display during power cycles. The last known direction is stored when operating a GreenStar™ 2 2600, GreenStar™ 2 1800 or GreenStar™ 3 2630 Display with a StarFire™ iTC or StarFire™ 3000 Receiver.

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**Direction Detection Issues on Non-Integrated AutoTrac™ Machines Resolved** – Producers operating a StarFire™ iTC Receiver on a Non-Integrated AutoTrac™ machine or a machine with an AutoTrac™ Universal will be able to manually change the direction of travel using the direction toggle button on the display.

Producers utilizing the StarFire™ 3000 Receiver on a Non-Integrated AutoTrac™ machine or a machine with an AutoTrac™ Universal will be allowed to change the direction of travel using the direction toggle button on the display until the steering speed changes and stays constant for 5 seconds. After the 5 seconds, the steering speed changes and the direction toggle will disappear because the StarFire™ 3000 Receiver will begin sharing its direction of travel.

**AutoTrac™ Universal Direction Indication Errors Resolved** – Previous versions of software prompted excessive direction indication warnings when the receiver was used with an AutoTrac™ Universal guidance unit. Those warnings are mitigated with this software release.

**Shared Signal Unable to Initialize Receiver Link** – Producers operating John Deere Active Implement Guidance with StarFire™ 3000 Receivers on the machine and implement will now be able to utilize Shared Signal without having RTK active on both the machine and implement receivers. Please contact your John Deere dealer for further compatibility information.

**RowSense™ Improvement in Curves** – Performance in curves has been improved by enhancements in RowSense™ algorithms.

**Signal Level Requirements for iGrade™** – Signal level requirements have been updated in the iGrade™ Operator's Manual which include:

- RTK signal is required for iGrade™ on the implement at all times.
- RTK signal is required for iGrade™ on both implement and vehicle when using:
  - Distance Trip

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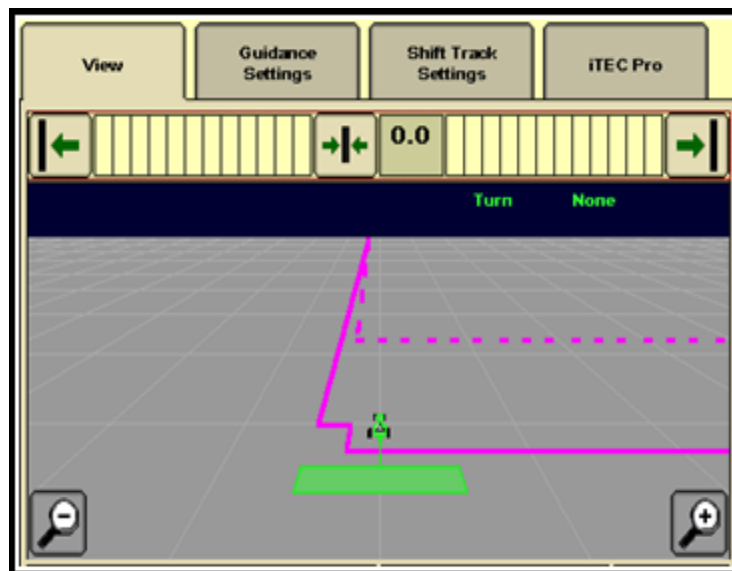
## Release Notes

- Max Cut
- SF1/SF2 signal is required with iGrade™ on the Vehicle (if not using Distance Trip or Max Cut).
  - Load Limit
- SF2 or RTK signal is required on the Vehicle for Surface Water Pro Plus and RTK signal on the implement.
  - Note: If using SF2 signal on the vehicle, Distance Trip will not function and Max Cut must be disabled.

### Informational Items

**Shared Signal Link Icon Missing From Guidance Page** – Producers utilizing Shared Signal may not see the Shared Signal link icon on the GPS status box on the Guidance View page or Homepages. To verify Shared Signal is linked, the producer will need to go to the Implement Receiver Status page.

**Shift Track Buttons Moved** – The Shift Track buttons have been embedded in the lightbar above the Guidance Map for all guidance modes on the GreenStar™ 3 2630 Display. These modes will include Straight Tracks, AB Curves, Adaptive Curves, Circle Tracks, Swap Track, Ditch Tracks and Levee Tracks.



**GreenStar™ 3 CommandCenter™ Will Not Have Enhanced AutoTrac™ Diagnostics Page** – Producers operating a 6R/6x30 tractor with SSU software version AL211380/AL211557 and TECU/SBBC software version AL211064/AL211556 will not have access to the Enhanced AutoTrac™ Diagnostics page. This only affects producers utilizing a GreenStar™ 3 CommandCenter™ Display with software version 2.9.1443 only. Users will be able to operate integrated AutoTrac™ at speeds as low as 0.1 kph without having access to this new diagnostics page.

If users experience performance issues with AutoTrac™ at slow speeds, the John Deere dealer will need to use the following information to determine the operating speed range allowed:

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- **Upper & Lower Speed Limit** – If the SSU has payload version AL211557/AL211380 or lower and TECU/SBBC has payload version AL211064/AL211556 or lower, it will have a lower speed limit of 0.5 kph. All SSU and TECU/SBBC payloads will have an upper speed limit of 30 kph.
- **Machine & Implement GPS Receiver** – Producers using a StarFire™ 3000 Receiver with SF1 or SF2 signal will be allowed to travel at speeds as low as 0.5 kph. Producers operating a StarFire™ 3000 Receiver with RTK signal will have the ability to travel at speeds as low as 0.1 kph. Producers using a StarFire™ iTC Receiver with SF1, SF2 or RTK signals will have the ability to travel at speeds as low as to 0.5 kph.
- **Implement Steering Controller** – This value will only apply to producers operating iGuide™ or John Deere Active Implement Guidance. For these producers, the lower and upper speed limit will be 0.5 – 30 kph, respectively.
- **iGuide™ Enabled** – This information can also be found on the Implement Guidance Diagnostics page.

**Application Controller Name Change** – A second Application Controller has been introduced by John Deere. The following explains the product compatibility:

- Application Controller 1100 will be used for iGrade™ and John Deere Active Implement Guidance products.
- Application Controller 1120 will be used for John Deere Mobile Weather and John Deere Harvest Identification, Cotton.

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## Field and Crop Management: John Deere Section Control, John Deere Harvest Identification, John Deere Mobile Weather, GreenStar™ Rate Controller, GreenStar™ Rate Controller Dry

### New Features

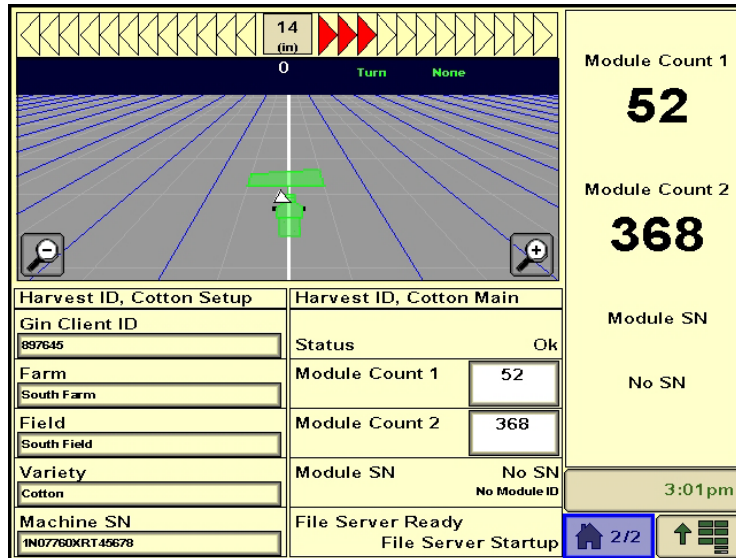
**John Deere Harvest Identification, Cotton** – This new feature records relevant information for each round module produced by the 7760 Self-Propelled Cotton Picker. The information is stored in a file on the GreenStar™ 2 2600 or GreenStar™ 3 2630 Display until it can be transferred via flash card or USB to a computer and sent to the gin. Information provided by John Deere Harvest Identification, Cotton is intended to serve as the round module booking form to simplify the ginning process.

- Note- This new feature records the following information:
  - Module serial number
  - GPS coordinates
  - Gin client
  - Farm and field
  - Variety
  - Machine serial number
  - Date
  - Time of bale creation

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- Module count (can be reset by user)



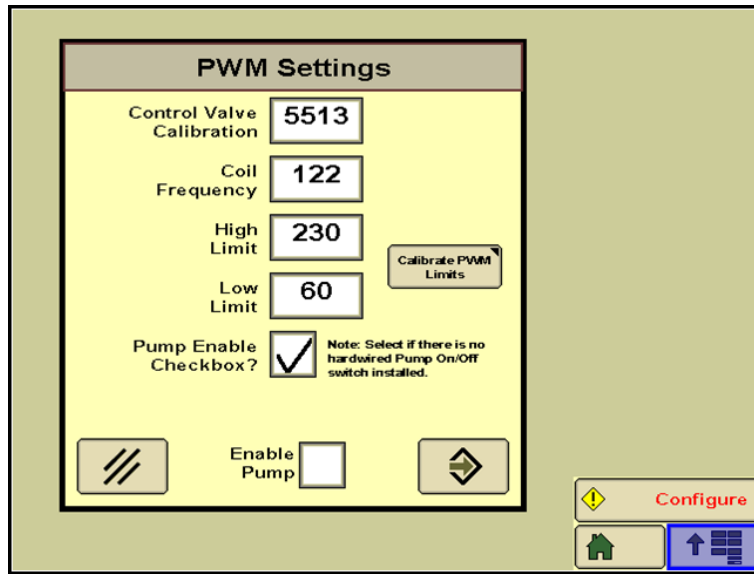
**John Deere Mobile Weather** – This add-on sensor will allow operators the ability to view current weather conditions on any GreenStar™ Display, excluding the Original GreenStar™ Display. By providing in-field weather information, operators are able to make real time decisions on chemical application. John Deere Mobile Weather displays temperature, humidity, delta T, wind speed and wind direction. Documentation of in-field weather conditions is only available on GreenStar™ 3 2630 Display and can only be viewed in Apex.



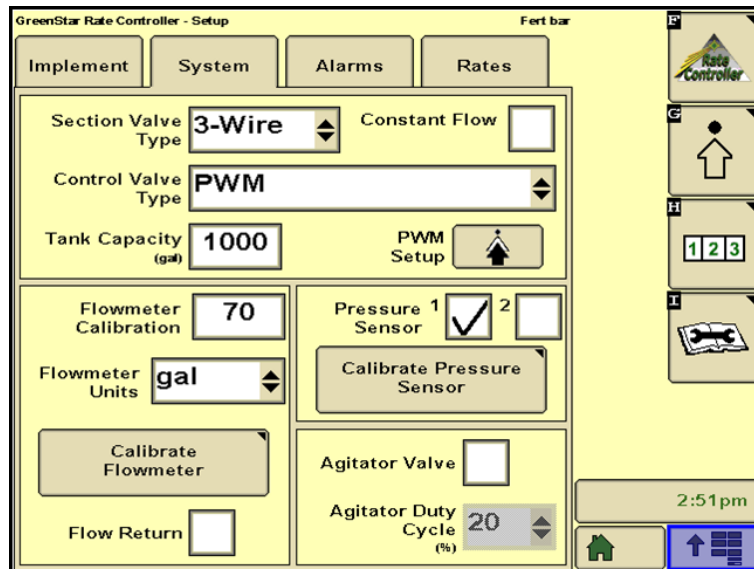
**GreenStar™ Rate Controller PWM Pump Button Option** – The GreenStar™ Rate Controller can now be configured with a Pump Enable/Disable check box in PWM (Pulse Width Modulated) control valve applications. The Pump Enable/Disable check box can be used to eliminate the need to wire a mechanical switch in the cab of the vehicle to shut down the operation of the solution pump.

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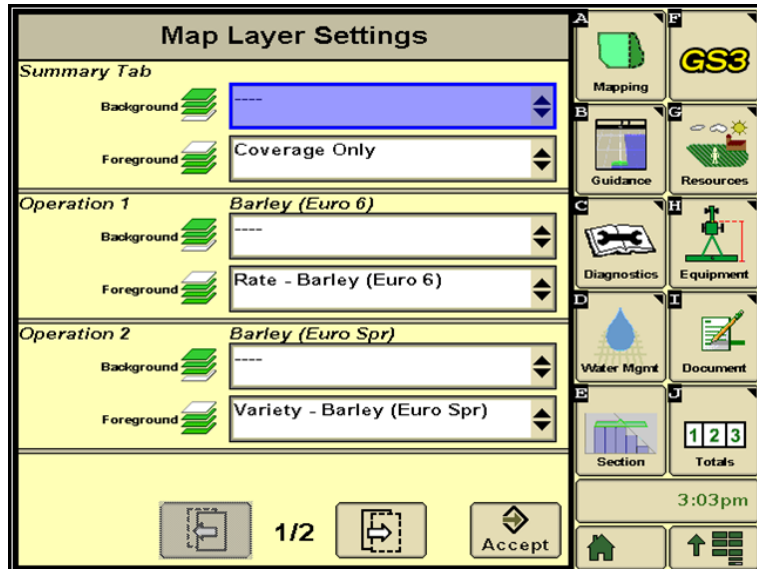
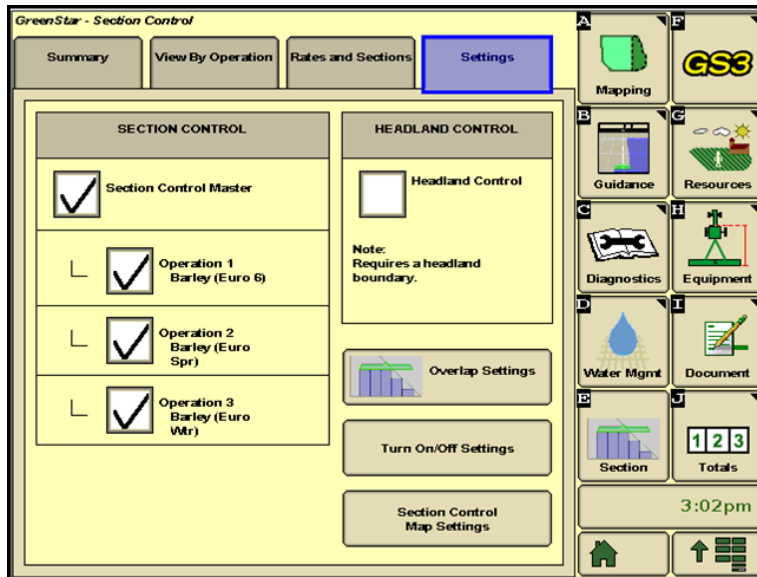
**GreenStar™ Rate Controller: Constant Flow Option** – There is now an option available for 3-Wire section valves to maintain a Constant Flow for Sprayer and Liquid Fertilizer Tool setups with the GreenStar™ Rate Controller. This option should only be used if the system has section valves allowing constant flow of product back to the tank.



**John Deere Section Control: Map Settings Button** – The Settings tab in Section Control has been updated with a Section Control Map Settings button. The map settings button will allow the producer to configure the background and foreground map layers for each operation that Section Control is running and also for the summary coverage map. The foreground map layer for each operation will default to an “as applied” map layer and the background layer can then be selected by the producer.

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### Informational Items

**Application Controller Name Change** – A second Application Controller has been introduced by John Deere. The following explains the product compatibility:

- Application Controller 1100 will be used for iGrade™ and John Deere Active Implement Guidance products.
- Application Controller 1120 will be used for John Deere Mobile Weather and John Deere Harvest Identification, Cotton.

**GreenStar™ Rate Controller Dry: Run Page Enhancements** – The GreenStar™ Rate Controller Dry run page has been enhanced for easier operation. The run page now has condensed the bin charge and application rates into a single button that opens a pop-up menu. The run page will also indicate if a product bin is being controlled by a prescription (Rx).

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**GreenStar Dry Rate Controller - Main**

|                   |                                     |                                     |                                     |                                     |            |
|-------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------|
| Master            | 10700 (lb)                          | 9250 (lb)                           | 1250.0 (lb)                         | 1500.0 (lb)                         | Spinner On |
| Activate Chaining | 1                                   | 2                                   | 3                                   | 4                                   |            |
| lb/ac             | 0                                   | 0                                   | 0.0                                 | 0.0                                 | RPM 0      |
| lb/ac             | 100                                 | 50                                  | 0.0                                 | 0.0                                 | RPM 600    |
| Bin Charge        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |            |
|                   |                                     |                                     | R <sub>x</sub>                      | R <sub>x</sub>                      |            |
|                   |                                     |                                     | Bin On                              |                                     |            |
|                   | 0.0                                 | 0.0                                 | 0.0                                 | 0.0                                 |            |
|                   |                                     |                                     |                                     |                                     |            |
|                   |                                     |                                     |                                     |                                     |            |
|                   |                                     |                                     |                                     |                                     |            |

9:30 am

**Set Target Rate**

|        |                |        |        |       |
|--------|----------------|--------|--------|-------|
| Bin 1  | Rate 1         | Rate 2 | Rate 3 | lb/ac |
| Map    | 50.0           | 75.0   | 100.0  |       |
| Bin 2  | Rate 1         | Rate 2 | Rate 3 | lb/ac |
| Map    | 50.0           | 75.0   | 100.0  |       |
| Bin 3  | R <sub>x</sub> | 0.0    |        | lb/ac |
| Zinc   |                |        |        |       |
| Bin 4  | R <sub>x</sub> | 0.0    |        | lb/ac |
| Sulfur |                |        |        |       |

10:07 am

**GreenStar™ Rate Controller Dry: Predefined Rates Now Available** – The GreenStar™ Rate Controller Dry now supports predefined rates. Predefined rates will allow the producer to configure three rates for each specific product. The producer can then quickly select the desired rate for each product directly from the GreenStar™ Rate Controller Dry run page.

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GreenStar Dry Rate Controller - Product Setup

Product Information | Product Bin Setup | Product Summary

Product Name: Zinc

Product Type: Fertilizer

Application Units: lbs | Spread Width (ft):

Product Density (lb / cu. ft): 56.0 | Target Spinner Speed (RPM): 600

Rate Mode: Predefined | Spinner Frame (in):

Predefined Rates (lb/ac): 1: 8.0, 2: 6.0, 3: 5.0

10:18 am

Set Target Rate

Bin 1 MAP: Rate 1 100.0, Rate 2 130.0, Rate 3 160.0

Bin 2 Zinc: Rate 1 8.0, Rate 2 6.0, Rate 3 5.0

Bin 3 Sulfur: - 10 +

10:17 am

**GreenStar™ Rate Controller Dry: Density and CFR Limit Increased** – The maximum limits have been increased for the product density and CFR value for the GreenStar™ Rate Controller Dry.

**John Deere Section Control Labels** – The GreenStar™ 3 2630 Display has been updated to reference John Deere Section Control instead of Swath Control in all menus and screens.

### Resolved Items

**Variety Locator Freezing at End of Row Resolved** – When using Variety Locator during harvest, GreenStar™ 3 2630 Displays may have frozen with the previous version of software. This was due to using the product contrary to original design and harvesting multiple varieties on a single pass, which overloads the display with information. Information processing has been changed in this software update to avoid the display freezes when harvesting multiple varieties in a single pass.

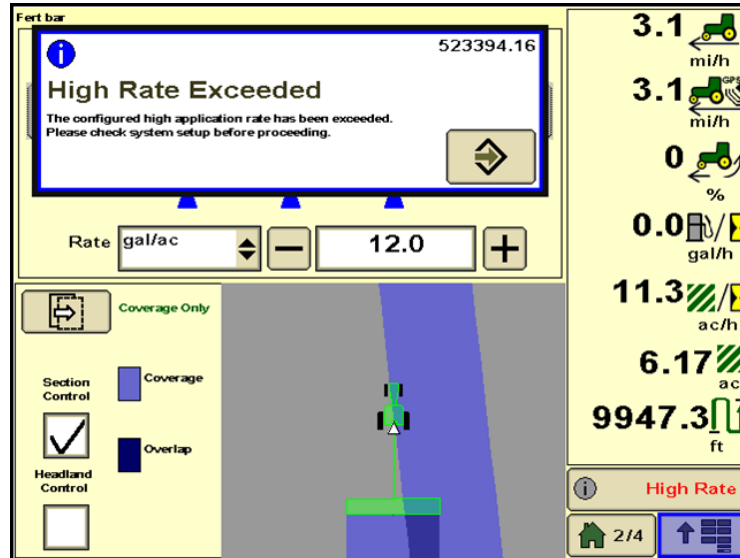
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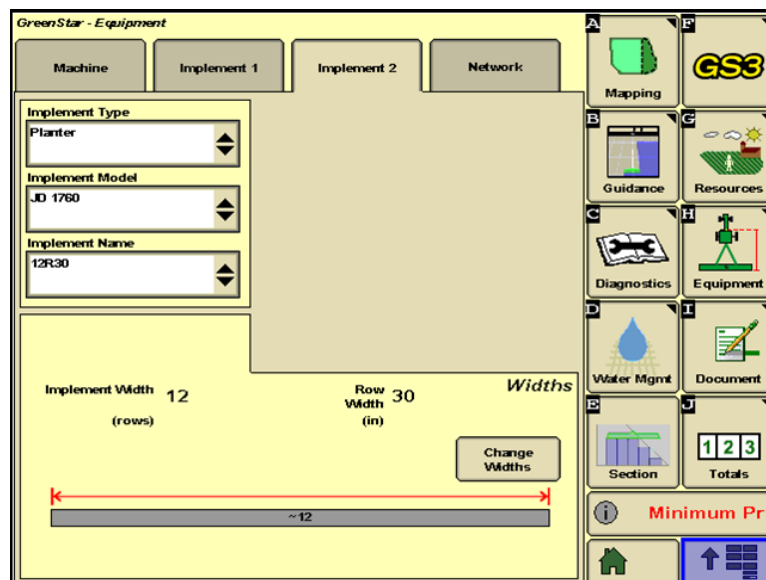
**GreenStar™ Rate Controller: Unexpected Chemical Flow Detected Warning Improvements –**

This warning typically occurred with NH3 systems or other systems where the flow meter was mounted vertically. Residual product movement in the system would trigger the warning even if the system was not leaking or inadvertently applying product. Improvements have been made to the GreenStar™ Rate Controller to help reduce the frequency of the Unexpected Chemical Flow Detected warning.

**GreenStar™ Rate Controller: High/Low Rate Alert Improvements –** When utilizing a half-screen homepage for the GreenStar™ Rate Controller; the high/low rate alarms will no longer cover up the entire homepage and will only be displayed within the half-screen.



**Variety Documentation With Non-SeedStar Planter and GreenStar™ Rate Controller –** The GreenStar™ 3 2630 Display will now be able to document individual varieties when a Rate Controller is installed on a non-SeedStar™ planter. The GreenStar™ Rate Controller will automatically populate as Implement One. The planter can then be manually configured as Implement Two. Implement Two (planter) can then be set for the number of rows and row spacings for documentation.



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*Please visit the John Deere Custom Performance website to view and/or update all other controllers.*

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### Software Versions — Bold items have changed.

| Version #         | Description   |
|-------------------|---|
| <b>3.10.1390</b>  | <b>GreenStar™ 3 2630 Display</b>  |
| <b>2.8.1031</b>   | <b>GreenStar™ 2 2600 Display</b>  |
| <b>2.11.1068</b>  | <b>GreenStar™ 2 1800 Display</b>  |
| <b>ITC 1.52 C</b> | <b>StarFire™ 3000 Receiver</b>  |
| <b>ITC 3.73 D</b> | <b>StarFire™ iTC Receiver</b>   |
| LCR 1.10 C        | StarFire™ 300 Receiver  |
| SF 7.70 B         | StarFire™ Gen II Receiver   |
| TCM 1.09 A        | TCM   |
| <b>2.10 E</b>     | <b>Application Controller 1100 (iGrade, Active Implement Guidance)</b>                                    |
| <b>1.00 A</b>     | <b>Application Controller 1120 (John Deere Mobile Weather, John Deere Harvest Identification, Cotton)</b> |
| <b>7.1.191</b>    | <b>MTG</b>  |
| ATU 1.13 A        | AutoTrac™ Universal (ATU)   |
| ATU 2.14 A        | AutoTrac™ Universal (ATU) 200   |
| <b>GRC 3.31 M</b> | <b>GreenStar™ Rate Controller</b>   |
| <b>GDC 1.01 M</b> | <b>GreenStar™ Rate Controller Dry</b>   |
| <b>RG2 2.01 E</b> | <b>Universal Row Guidance</b>   |
| CAT 1.11 B        | AutoTrac™ Controller  |
| GSD 1.97 B        | Original GreenStar™ Display   |
| HMCT 1.07 C       | Harvest Monitor™ Cotton SCM   |
| CMFS 2.07C        | Cotton Mass Flow Sensor CMFS  |
| SMON 1.73 A       | Original Harvest Monitor™ SPFH  |
| HMON 1.20 C       | Harvest Monitor™ Combine with In-Tank Moisture  |
| MST 7.01 B        | Harvest Monitor™ Elevator Mount Moisture Board  |
| AC2 11            | Original Air Cart   |
| SMVR 1.01M        | SeedStar™ Gen II  |
| CDOC 3.56 A       | Field Doc™ Connect  |
| FDOC 3.57 A       | Field Doc™ Basic  |
| TRAC 5.06B        | Keycard   |
| ADOC 1.25 A       | Field Doc™ AirCart  |
| PDOC 3.55 A       | Field Doc™ Planter  |
| PDOC 6.78 A       | Field Doc™ Planter  |
| SDOC 3.44 A       | Field Doc™ Sprayer  |
| HDCT 1.13 A       | Harvest Doc™ Cotton   |
| HDSP 4.13 A       | Original Harvest Doc™ SPFH  |
| HDOC 1.54 A       | Harvest Doc™ Combine  |
| YMAP 6.61 A       | Combine Yield Mapping   |
| MST 6.60 B        | Combine Yield Monitor (Gen I Moisture Sensor – ISO 2.5v Dual CAN)   |
| MST 5.60 A        | Combine Yield Monitor (Gen I Moisture Sensor – Deere 4/5 CAN)   |
| 1.12A             | Lightbar  |
| YWW0D6_6.Y12      | Reprogramming back to Combine Yield Mapping   |
| 3.31G             | GreenStar™ 2 Harvest Doc™ SPFH (controller)   |
| 40                | HarvestLab™ Sensor  |
| Need version 10+  | SeedStar™   |
| <b>3.3</b>        | <b>Apex™</b>  |