

Stoneville Ginners School 2017 Cotton Harvester Updates

Christopher Murray



Model Year 17 Cotton Updates

- Cotton Moisture Sensor
- Round Module Weighing
- Harvest Identification, Cotton Pro

HID, Cotton Pro Gin Integration Information

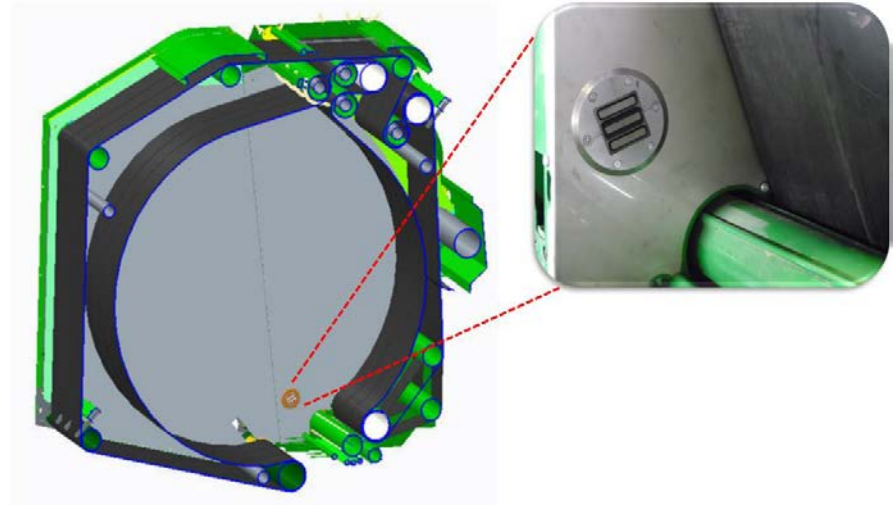
- Round Module Wrap RFID Information
- RFID Bridge
- MyJohnDeere Account



Cotton Moisture Sensor

Value Proposition Highlights

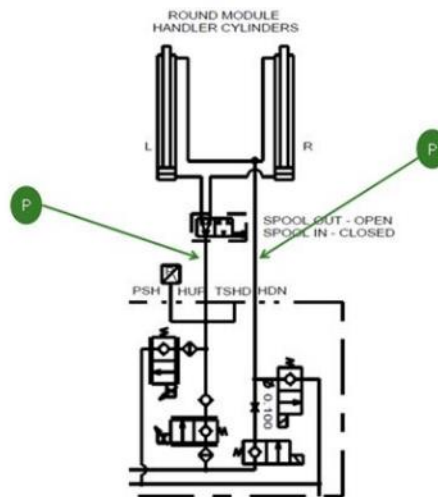
- Preserve cotton quality
- Real time in-cab decision tool
- Industry leading accuracy and reliability
- Enables maximum gin efficiency
- Measures moisture of cotton in contact with the sensor as module is forming (capacitance)
- Maximizes the harvest window by measuring cotton moisture on the go and provides data to operator and down stream data system (Harvest ID, Cotton Pro)



Cotton Round Module Weighing

Value Proposition Highlights

- Provides method for simple and fast calibration of cotton yield monitor system
- Real time feedback of module weight
- Measures weight of module on handler at carry position via pressure sensors and GPS compensation
- Provides information to operator and down stream data system (*Harvest ID, Cotton Pro*) – *post harvest management*

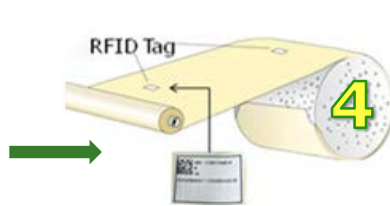


RM: Active	
Client: Murray Farms	
Farm: Delta Springs	
Field: North 40	
Variety: DP 1555 B2RF	
Operator: Dave Hale	
Complete	
SN:	16505991651
Area(acre):	2.413
Weight (lb):	5396
Moisture (%):	8.9
<input type="button" value="Add Comment"/>	
Field Total:	2
Season Total:	2
File Server Status	Wait for Module

Harvest Identification, Cotton Pro



Dirt to Shirt Traceability



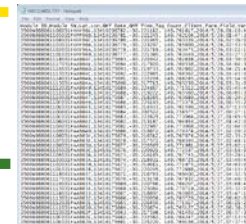
RFID Reader



SF6000

HID, Pro Controller

GreenStar™ 2630 Display w/ HID, Cotton Pro



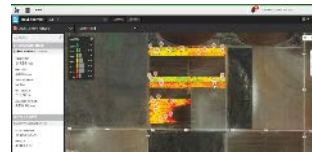
USB or Data Card



MTG JDLink



MyJohnDeere



Field Analyzer

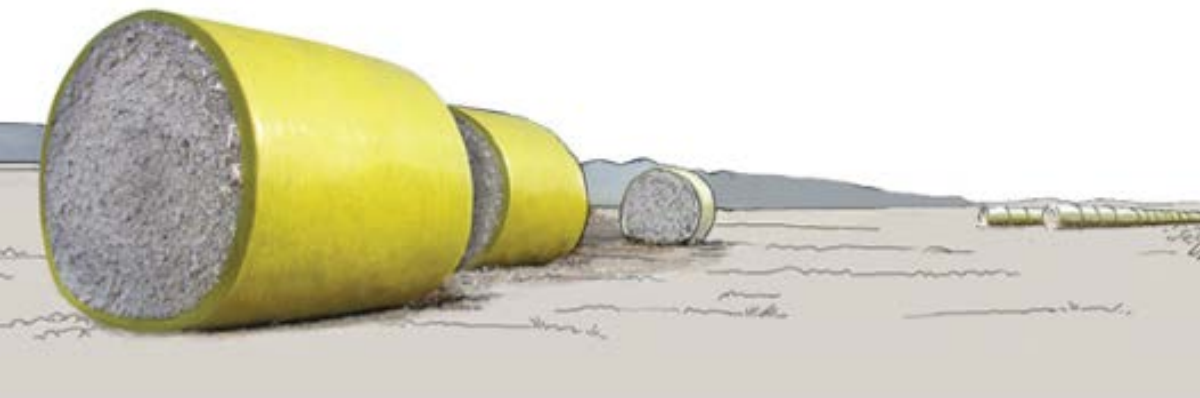


COTTON LEADS™



Information Documented by Harvest Identification, Cotton Pro for Every Module

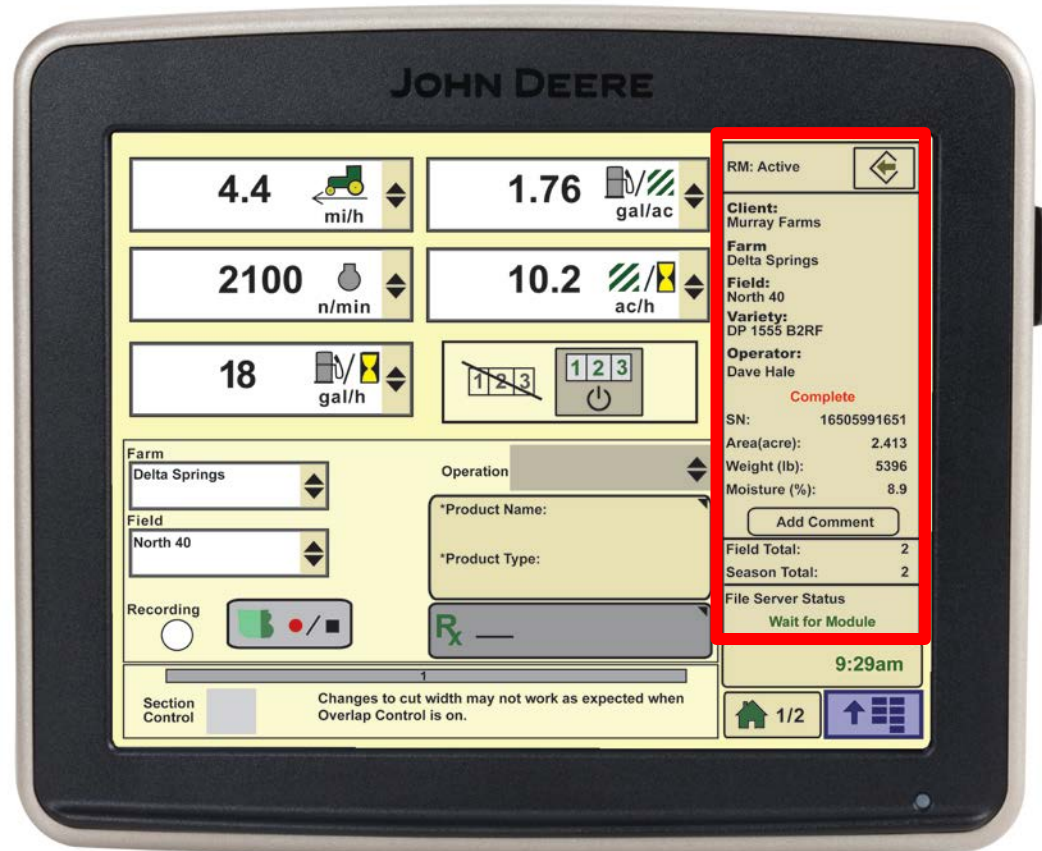
- Module ID
- Module SN
- Latitude
- Longitude
- GMT Date/Time
- Tag Count
- Client
- Farm
- Field
- Variety
- Machine PIN
- Operator
- Gin ID
- Producer ID
- Local Time
- Field Area
- Season Total
- Diameter
- Moisture
- Weight
- Drop Latitude
- Drop Longitude
- Field Total
- Incremental Area
- Local Date
- Comments



Harvest Identification, Cotton Pro

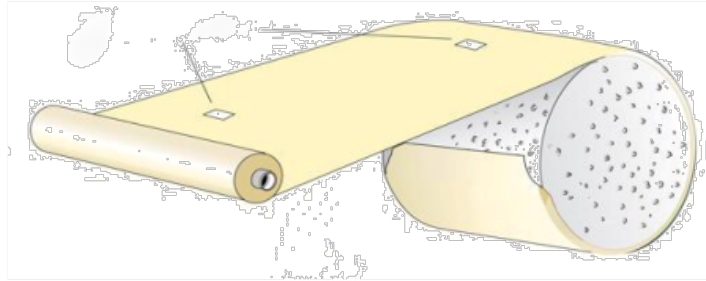
Value Proposition Highlights

- **Operational Features Added**
 - Auto SN
 - Notifications
 - Comments
 - History
 - Field File Sorting
 - Auto CFF/Season Counter Reset
- **Data Elements Added**
 - Incremental area
 - Moisture, Weight
 - Local/Display timestamp
 - Drop Location



HID, Cotton Pro Gin Integration

Round Module Wrap RFID Information

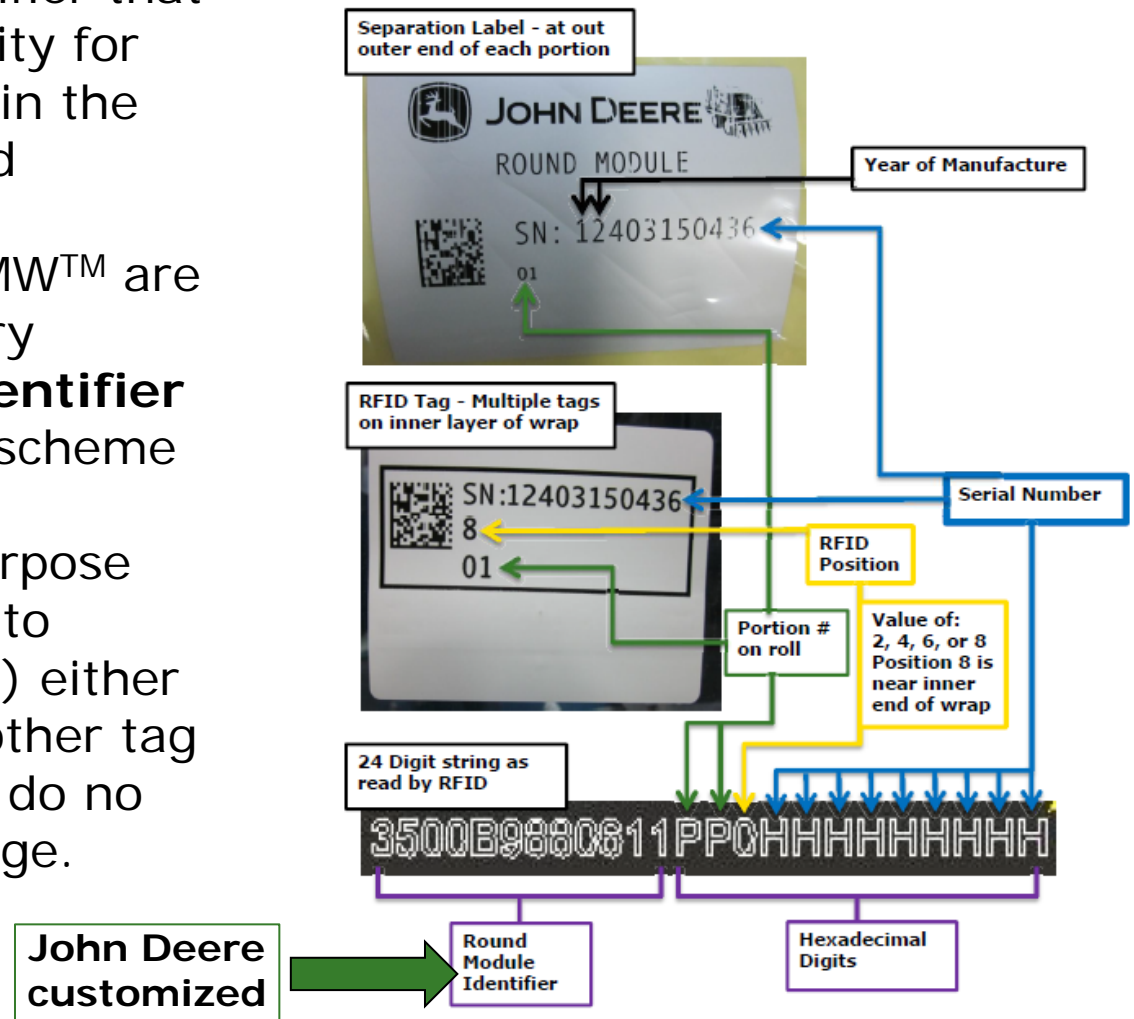


- Monza[®] 5 UHF tag chip used in TAMA RMW[™] – chip is industry leader in reliability, consistency – made by Impinj
 - EPCglobal and ISO 18000-6C compliant
 - Detailed specs available on Impinj website
- John Deere holds exclusive patents for RFID tags embedded in cotton round module wrap – significant R&D to develop, implement and maintain (Patent #'s US7694491, US8071196, US8087216)
- Available exclusively in TAMA RMW[™] with patented Z-lock
- On-board RFID antennae supplied by Intermec
- Round Module Wrap will have 4 tag chips

Electronic Product Code – GID-96 standard

- **EPC** – universal identifier that provides unique identity for every physical object in the world – open standard
- RFID tags in TAMA RMW™ are encoded using industry standard **General Identifier 96 (GID-96)** coding scheme
- **GID-96** - general purpose standard that is used to identify things that (1) either don't fall neatly into other tag data standards or (2) do not have a barcode heritage.

Separation Label and RFID Tag Correlation to RFID String



Round Module Movement



Harvest Identification, Cotton – Module traceability in the field

RFID Bridge



Gin Yard

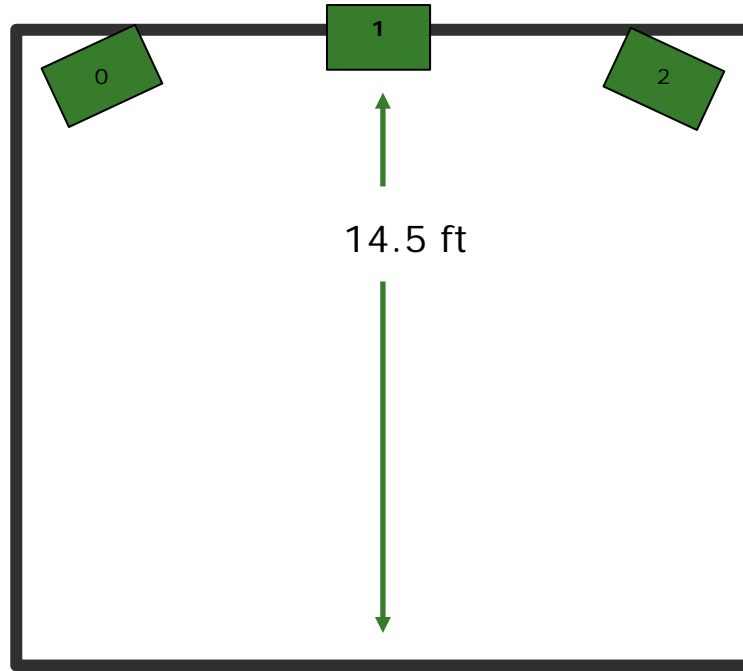
RFID Reader on feed floor

This is a visual representation of module traceability from the field to gin feed floor.

RFID Reader Bridge



RFID Bridge - Gin Recommendations








Antenna Placement:

Three antennas are recommended located approximately 14.5 feet high, with 5 feet between each unit. The outside units should be angled inwards at 25 degrees as shown in the picture above and in the previous slide.

Vehicle Speed:

In order to give the antennas the best opportunity to read difficult tags, the vehicle needs to be moving through the portal at approximately 1 mph but not over 2 mph.

Barcodes Inc.

Product	Price	Qty	Total
 <p>Impinj IPJ-REV-R420-USA2M1 Speedway Revolution R420 RFID Reader, UHF, Fixed, 4-Port, Power over Ethernet (PoE), GPIO. Does not include power supply or power cord. For use in North America, FCC. Must purchase Antenna Hub (Part# IPJ-A6001-000) for 32 antenna support. Replaces Part# IPJ-REV-R420-USA1M1. Ships Today</p>	\$1,585.00	1 Update Item Remove Item	\$1,585.00
 <p>Impinj IPJ-A1000-USA Speedway Accessories Far Field LHP Antenna (FCC) (10.1 x 10.1 x 1.4 inch) with 8 ft. pigtail cable. Ships Today</p>	\$180.00	2 Update Item Remove Item	\$360.00
 <p>Impinj IPJ-A1001-EU1 Far Field RHP Antenna (ETSI) (10.1 x 10.1 x 1.4 inch) with 8 ft. pigtail cable. Ships In 3-5 Days</p>	\$180.00	1 Update Item Remove Item	\$180.00
 <p>Impinj IPJ-A2002-000 Speedway Accessories Universal Power supply (Without AC Power cord) Ships Today</p>	\$75.00	1 Update Item Remove Item	\$75.00
 <p>Impinj IPJ-A2051-USA Speedway Accessories AC Power Cord, US, Compatible with Impinj. Ships Today</p>	\$10.00	1 Update Item Remove Item	\$10.00

Promotional Code

[Apply](#)

[Estimate Shipping](#)

Subtotal \$2,210.00

Total **\$2,210.00**

[Proceed to Checkout](#)

Sales rep: Nick McKiernan



200 W Monroe, 10th Floor
Chicago, IL 60606
Fax: 1-312-583-9215
Direct: 1-312-582-4864
Toll Free: 1-800-351-9962 Ext. 4864
NMckiernan@barcodesinc.com

- ❖ Ethernet cable not priced in this list
 - Each gin will need Ethernet cable and the length will be based off of each location needs.



Sign in to MyJohnDeere

Username

▶ Forgot username?

Password

▶ Forgot password?

PIN For John Deere Financial customers only.

▶ Don't have a PIN?

SIGN IN

Remember Me

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Your gateway to better business decisions

MyJohnDeere makes it simple to access secure John Deere web applications:

- Locate John Deere Financial information.
- Collect and analyze machine and agronomic information.
- Manage all your John Deere technology subscriptions.
- Search for parts solutions—including inventory and pricing—then place orders.
- Reduce the number of user IDs and passwords needed to access your applications.
Register today.

CREATE ACCOUNT

LEARN MORE



HELLO, Christopher

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Get your personalized local weather information from trusted partner DTN.

Today

High: 62°
Low: 50°

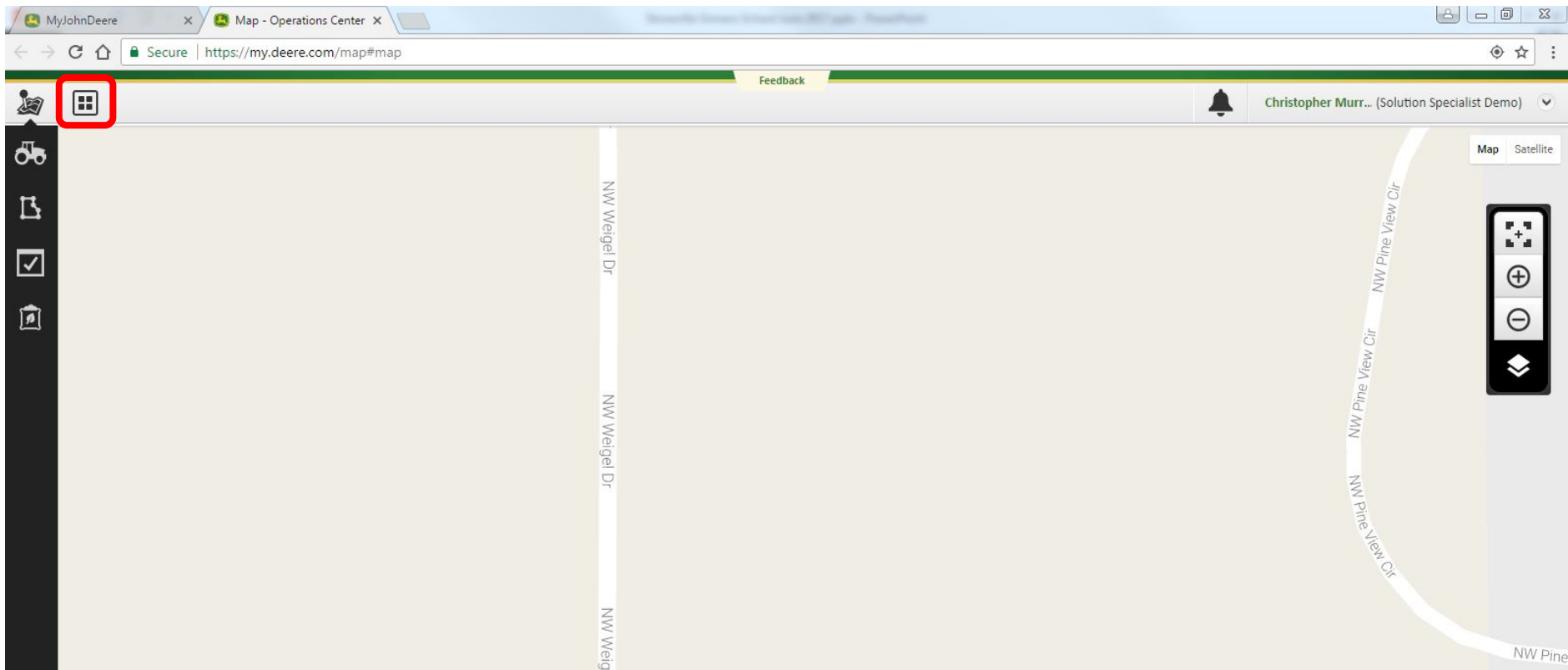
Wednesday

High: 64°
Low: 48°

Thursday

High: 72°
Low: 44°

John Deere Operations Center



John Deere Operations Center

MyJohnDeere Tools - Operations Center

Secure | https://my.deere.com/map#tools

Feedback

Christopher Murr... (Solution Specialist Demo)

Tools

- Agronomic Report
- Field Analyzer
- Files
- Jobs Report
- John Deere Data Manager
- John Deere Software Manager
- More Tools
- Organization**
- Permissions Report
- Prescription Creator by Agrian
- Remote Display Access Report
- Setup Builder
- Terminals

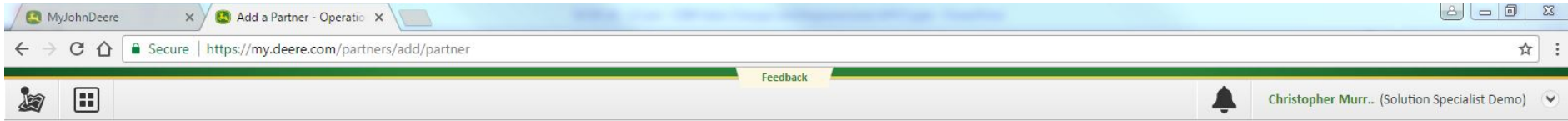
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John Deere Operations Center

The screenshot shows a web browser window with the URL <https://my.deere.com/organization-details?tab=partners>. The page title is "Organization" and it features a "Feedback" button. Below the title, there are two tabs: "Staff" and "Partners", with the "Partners" tab selected and highlighted with a red box. To the left of the main content area, there is a trash can icon and a plus sign icon, both highlighted with red boxes. Below the plus sign icon is a button labeled "Add Partner" with a tooltip that says "me". To the right of the plus sign icon is a search input field with a magnifying glass icon. Below the main content area, there is a footer with the text "Copyright © 2011-2017 Deere & Company. All rights reserved." and social media links for "Contact Us", Facebook, Twitter, and YouTube.

John Deere Operations Center



Collaborating is easier than you think.

Start by choosing an option below.

Share information from my Operations Center.

You would like help optimizing machines, making agronomic decisions and/or collaborating on work.

Request information from another Operations Center.

Cams9620R@gmail.com

Machine Optimization

You help manage or optimize equipment.

Agronomic Decision Making

You help plan field work and analyze results.

Work Collaborator

You collaborate to plan and monitor field work.

[Cancel](#)

NEXT

John Deere Operations Center

MyJohnDeere Add a Partner : Request

Secure | <https://my.deere.com/partners/add/partner?emailAddress=Cams9620R%40gmail.com&step=request&machineOptimizationPermissions=&allFieldsProductionData=false&fields=&permissions=>

Feedback

Christopher Murr... (Solution Specialist Demo)

What type access would you like to request?
Choose from the options below.

<p>RELATIONSHIP TYPE Machine Optimization</p> <p><input type="checkbox"/> All Machines</p>	<p>RELATIONSHIP TYPE Agronomic Decision Making</p> <p><input checked="" type="checkbox"/> All Fields and Production Data</p>	<p>RELATIONSHIP TYPE Work Collaborator</p> <p><input type="checkbox"/> Remote Display Access</p> <p><input type="checkbox"/> View Location History</p> <p><input type="checkbox"/> Send Files To Machines</p> <p><input type="checkbox"/> View Prescription</p> <p><input type="checkbox"/> Create Setup</p> <p><input type="checkbox"/> View Jobs</p> <p><input type="checkbox"/> Create & Edit Jobs</p>
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[Cancel](#) [SEND REQUEST](#)



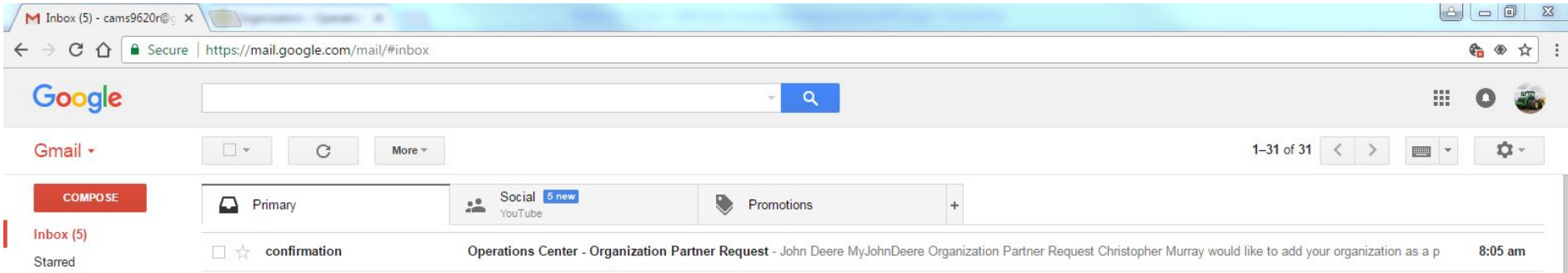
John Deere Operations Center

The screenshot shows a web browser window with two tabs: 'MyJohnDeere' and 'Organization - Operation'. The address bar shows a secure connection to https://my.deere.com/organization-details?tab=partners&msg=add_partner_success. The page title is 'Organization'. Below the title, there are two tabs: 'Staff' and 'Partners', with 'Partners' being the active tab. A search bar is located on the right side of the page. Below the search bar, there is a table with the following content:

<input type="checkbox"/>	Partner Name	Address
<input type="checkbox"/>	<i>Invite Pending</i>	cams9620r@gmail.com

At the bottom of the page, there is a footer with the text 'Copyright © 2011-2017 Deere & Company. All rights reserved.' and a 'Contact Us' link with social media icons for Facebook, Twitter, and YouTube.

John Deere Operations Center Confirmation E-mail

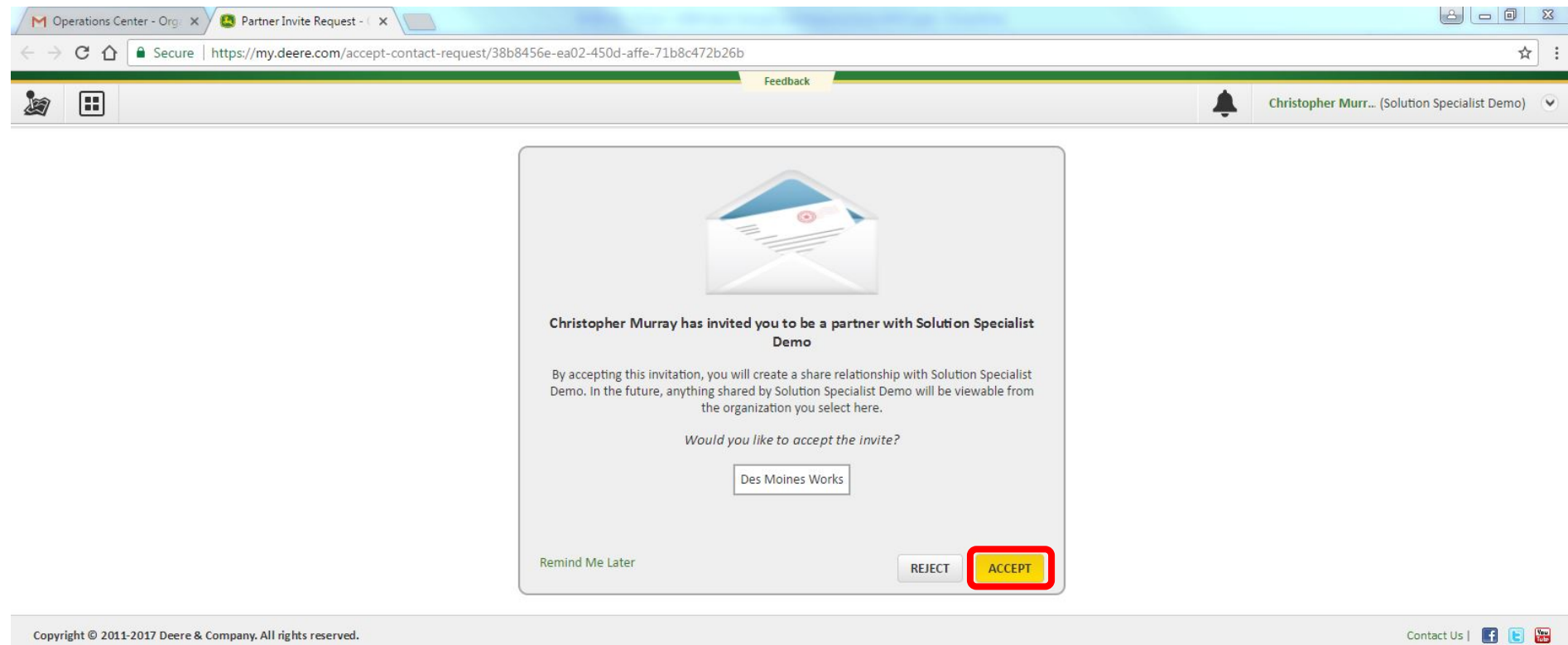


John Deere Operations Center Confirmation E-mail

The screenshot shows a Gmail interface with the following elements:

- Browser Address Bar:** <https://mail.google.com/mail/#inbox/15c3569bf06580a3>
- Search Bar:** Google search bar with a magnifying glass icon.
- Navigation:** Gmail navigation icons (back, forward, search, etc.) and a "2 of 32" indicator.
- Left Sidebar:** "COMPOSE" button, "Inbox (5)", "Starred", "Sent Mail", "Drafts", "More", and a contact "Christopher" with a plus sign.
- Email Header:** "Operations Center - Organization Partner Request" (Inbox), "confirmation@johndeere.com" (to me), and "8:05 AM (2 minutes ago)".
- Email Content:**
 - Logo:** JOHN DEERE logo and "Operations Center" text.
 - Subject:** Organization Partner Request
 - Text:** "Christopher Murray would like to add your organization as a partner of Solution Specialist Demo. Please accept this request by clicking the button below."
 - Button:** A yellow button with the text "Accept Request" is highlighted with a red rectangular box.
 - Text:** "If the button does not work, please copy this URL into your web browser."
 - URL:** <http://my.deere.com/accept-contact-request/38b8456e-ea02-450d-affe-71b8c472b26b>
 - Text:** "If you have questions, please contact [Christopher Murray](#)."
 - Footer:** "Copyright © 2017 Deere & Company. All Rights Reserved"

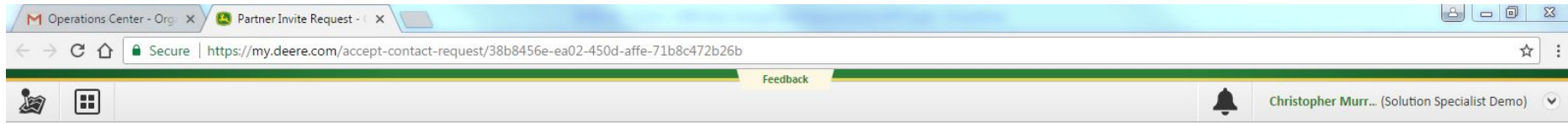
John Deere Operations Center Confirmation E-mail



The screenshot shows a web browser window with the following elements:

- Browser Tabs:** "Operations Center - Org" and "Partner Invite Request".
- Address Bar:** "Secure | https://my.deere.com/accept-contact-request/38b8456e-ea02-450d-affe-71b8c472b26b".
- Page Header:** "Feedback" button and user profile "Christopher Murr... (Solution Specialist Demo)".
- Central Content:**
 - An icon of an open envelope with a red seal.
 - Subject:** "Christopher Murray has invited you to be a partner with Solution Specialist Demo".
 - Text:** "By accepting this invitation, you will create a share relationship with Solution Specialist Demo. In the future, anything shared by Solution Specialist Demo will be viewable from the organization you select here."
 - Question:** "Would you like to accept the invite?".
 - Organization:** "Des Moines Works" (in a text box).
 - Buttons:** "Remind Me Later", "REJECT", and "ACCEPT" (highlighted with a red border).
- Footer:** "Copyright © 2011-2017 Deere & Company. All rights reserved." and "Contact Us | [Facebook] [Twitter] [YouTube]".

John Deere Operations Center Confirmation E-mail



Pioneer Field 360 has requested the following partnership permissions with your organization, Green Farms

Production/Agronomic Data and Services ?

- Production/Agronomic/Yield Detail Data *(Requested)*
- Prescription Information *(Requested)*
- Setup Information *(Requested)*

Cancel

APPROVE

John Deere Operations Center

MyJohnDeere Tools - Operations Center

Secure | <https://my.deere.com/map#tools>

Feedback

Christopher Murr... (Solution Specialist Demo)

Tools

- Agronomic Report
- Field Analyzer
- Files**
- Jobs Report
- John Deere Data Manager
- John Deere Software Manager
- More Tools
- Organization
- Permissions Report
- Prescription Creator by Agrian
- Remote Display Access Report
- Setup Builder
- Terminals

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John Deere Operations Center







MyJohnDeere Files - Operations Center

Secure | https://my.deere.com/files?fileType=6

Files

Files Queue Archive

All Setup Prescription Doc Files **Harvest ID** PDF

Search

<input type="checkbox"/>	Name	Type	Size	Date Created	Last Modified Date	Recent Activity	Source
<input type="checkbox"/>	CS690 US 2016 Field_1229201...	HID	270.8 KB	December 29, 2016 9:00:10 AM	April 5, 2017 11:58:37 AM	File reprocessing finished	John Deere 2630
<input type="checkbox"/>	CS690 US 2016 Field_1229201...	HID	270.8 KB	December 29, 2016 8:59:54 AM	January 30, 2017 9:19:54 PM	Map processing finished	John Deere 2630
<input type="checkbox"/>	CS690 US 2016 Field_1227201...	HID	264 KB	December 27, 2016 12:54:21 PM	February 21, 2017 10:02:43 AM	File processing finished	John Deere 2630
<input type="checkbox"/>	CS690 US 2016 Field_1227201...	HID	264 KB	December 27, 2016 12:50:58 PM	December 27, 2016 12:51:34 PM	File processing finished	John Deere 2630
<input type="checkbox"/>	CS690 US 2016 Field_1221201...	HID	247.9 KB	December 21, 2016 8:54:49 PM	December 21, 2016 8:55:16 PM	Field summary processing finished	John Deere 2630



JOHN DEERE