TOMATO HARVESTERS
PRESENT AND FUTURE CHALLENGES

CTGA Meeting
February 2, 2012
Outline

- Product Family
- Machine Issues
- Emission Standards
- Future Developments
Product Family

- Commander
- Johnson
- Star
- I-Star
- Vine Diverter
Commander

- 2002 Heavy Duty Wheel Motors
- 2003 Commander Wide
- 2004 Bushing Pump
- 2005 Choppers
- 2005 Engine 225 HP
- 2009 Cab Option
- 2009 Commander 80
Johnson

- 2004 Heavy Duty Wheel Motors
- 2005 Choppers
- 2005 Engine 225 HP
- 2012 Johnson 80
Star

- 2007 Introduction
- 2009 Adjustable Axles
- 2010 CAN Based Electrical
- 2011 Blower Cleaning
I-Star

- 2011 Introduction
- International Markets
- Bed and Flat Cultured
- Side-Shift Chassis
- Optional Pickups
- Pivot Header
Vine Diverter

- Introduced in 2010
- Disc Pickup Only
- Tractor Powered
Machine Issues

- Choppers - Safety
- Dual Sort
- Axles
- Johnson Cross Conveyo
Choppers - Safety

Commander and Johnson Style
• Adjustable Back-Plate
• Pressure Comp System on Johnson
• Gear Pump Motor System on Commander

Lockout – Switch
• All Models
• Recovery Shield on Commander
• VTA System Blocks Access on Johnson
Dual Sort Options

Raised Side Sort Version
- Multiple Variations
  Commander and Johnson

Elevated Dual Sort
- No Upward Incline on Color Sort
- Not Available on Johnson
Adjustable Axles

- Provides Wheel Spacing: 60 to 74 inch, 63 to 77”, or 66 to 80.

- Support Weight on Stands and Block Frame.
- Pull Axle Pins.
- Remove Linkage Arm off Steering Cylinder and Leveling Cylinder.
- Actuate Sliders.
- Re-Install Pins.
- Assemble Linkage Arms and Leveling Cylinders.
Johnson Cross Conveyor

- Widened cross conveyor to 46”
- Eliminate power dam on backside
- Fruit Conveyor extended up and over cross.
- Reduces bearing count and one Ross motor.
Emission Standards

- EPA Time Table and Emission Plan
- Engine Costs and Issues
- Replacement Availability
## Engine Emission Plan

- Harvesters are Built under the Small Business Flex Program CFR1039.625

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* Flex Program
Costs and Issues

- IT 4 Engines Costs are 80% Higher
- Final Tier 4 – Costs Unknown
- Repower Costs are Significant on Tomato Harvester
- All Applications are Certified by Engine Distributor and Deere Engineering
Replacement Availability

- Tier 0 Engines, 6076T – 172 HP
  - No Replacements Available
  - Reman Only, Short or Long Blocks
- Tier 1 Engine, 6081T – 200 HP (JFM 172HP)
  - No Replacements Available
  - Reman Only, Short or Long Blocks
- Tier 2 Engines, 6081H – 225 HP
  - No Replacements Available
  - Reman Only, Short or Long Blocks
- Tier 3 Engines 6068H – 225 HP
  2009 AND OLDER MACHINES – NO REPLACEMENT ENGINES AVAILABLE
Future Developments

- Johnson 80 Machine
- Telematics Project
- Ferrari Trans-planter
- Other
Johnson 80 Machine

- Frame widened to accommodate 40 channel color sorters on each side.
- Side Transfers and Side Sorts all 10” wider.
- Transport of machine will require a pilot car.
Telematics – M2M

- Wireless Link
- Access Machine Data Remotely
- Use of Triggers to Send Texts or Emails
Telematics - Reporting

### Master View

<table>
<thead>
<tr>
<th>ICON</th>
<th>HARVESTER</th>
<th>MODEL</th>
<th>STATUS</th>
<th>WARRANTY START</th>
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Total Records: 11
Telematics - Reporting

Master View

To sort the table, click the column header.

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<th>ICON</th>
<th>HARVESTER</th>
<th>BATTERY</th>
<th>LOAD</th>
<th>RPM</th>
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Total Records: 11
Telematics - Reporting
Ferrari Trans-planter

- Vertical Drop
- Indexing Carousel
- Mud Kicker with Pivot in Shoe
Other

- Elevators and Rear Cross Conveyors
- Header, Shaker and Recovery Systems
- CAN Based Electrical Systems
- Customer Feedback
WORLD AG EXPO

February 14-16, 2012
Booth N-32