The HarvestLab sensor on the spout of your John Deere SPFH automatically takes thousands of samples for representative, accurate dry matter readings of the crop you’re harvesting while you’re harvesting! Real-time moisture and yield information is shown on the GreenStar 2600 display inside the cab, along with readings for material throughput and crop yield per field, hectares or trailer load. You can even print a summary of this vital information for your own records or for your customer with the optional on-board printer, providing an instant hard copy of the work done. Teamed with AutoLOC, 7050 Series SPFH automatically adjust the length of cut based on the dry matter values gathered, allowing for optimum throughput and silage quality.

Taking it one step further, HarvestDoc lets you optimise silage additive dosage for perfect silage preservation according to dry matter, cut length and throughput. With HarvestDoc you benefit from automatic, georeferenced recordings of harvesting data for later documentation, analysis or fully automated invoicing for farm contractors.

HarvestLab + AutoLOC + HarvestDoc = Industry Exclusive Innovation

A Better Harvest with i-Solutions

i-Solutions are a suite of intelligent, innovative, electronic control systems. Within your entire operation, i-Solutions identify ways to improve productivity, profitability, efficiency and quality throughout all stages of your harvesting campaign and beyond.

All i-components integrate seamlessly and give you long term peace of mind with your investment. HarvestLab is no exception. Teamed with HarvestDoc and AutoLOC, HarvestLab comes factory installed on 7050 SPFH.

Intelligent. Innovative. Integrated.

Higher returns with GreenStar solutions:

• Precision, satellite based guidance: AutoTrac• Field variability and Yield Management: JDLink• Operation Monitoring: HarvestMonitor• Documentation: Harvest/Ellc and JDLink software• Automatic length of cut adjustment: AutoLOC• In-cab printer optional• Intuitive user interface: GreenStar 2600 display• Additive dosage optimisation

AutoLOC – John Deere Exclusive

Automatic length of cut adjustment:

• Superior silage compaction
• Power silage losses
• Increased productivity and efficiency
• Improved product quality
• Reliable results
• Lower fuel consumption

Accurate, representative silage analysis – while you harvest!
Because the sensor is designed as a mobile piece of equipment, the field isn’t the only place where HarvestLab adds value. You can now create your own silage analysis laboratory at home by detaching the sensor from the forage harvester and following a few simple steps.

Place the optional feintable on your HarvestLab sensor, connect it to your laptop and you’re ready to start doing your own silage analysis without depending on a costly laboratory. You’ll get precise readings of your ensilage, grass, alfalfa or whole crop silage dry matter within seconds. Measuring silage dry matter has never been easier!

In the field, HarvestLab helps producers high quality silage and prepares for optimum preservation, in the office, it aids you when balancing rations to maximise top herd productivity and cut feeding costs.

Owners of biogas plants can also benefit from HarvestLab. The precise dry matter measurement allows optimisation of the liquid in the digester for increased gas production at no extra cost. A valuable contribution to increase the efficiency of your biogas plant!

HarvestLab stationary unit

Business won’t wait and neither should you – get immediate results with HarvestLab.

John Deere and Carl Zeiss developed the HarvestLab near-infrared reflectance sensor because you cannot afford to wait over 24 hours while a sample of your crop is tested in a drying oven!

Carl Zeiss is the German specialist in lenses, optical devices and sensors. The near-infrared reflectance technology used in HarvestLab is the same that many professional laboratories use to analyse crop moisture to an accuracy of ± 2%.

Near-infrared light is reflected from the moving crop, towards a sensitive detector inside the HarvestLab unit. Silage of different dry matter reflects the NIR light at varying intensities, from which the moisture of the crop is accurately determined.
HarvestLab in your operation

When you know the precise dry matter value of your crop you can do much more than just decide on when to start harvesting. Selecting the optimum length of cut, choosing the additive dose rate, precisely measuring the amount of crop harvested and balancing feed rations are all possible once you have that vital information. If your operation harvests forage crops for your own use, contractor operations or for sale to end users, HarvestLab is your OPUS for quick and informed decisions to make your operation even more profitable.

The HarvestLab sensor is factory calibrated for grass, maize silage, alfalfa and wheat crop silage. Regardless of your forage operation, HarvestLab can help you maximise your profitability while providing you with real-time data about your harvested crop.

Your challenges may be different but the solution is the same.

Reduced cost and maximum productivity for livestock operations.

Reduced cost
- Top preservation through optimum length of cut and silage additive dosage*
- Higher silage quality to reduce costly supplement feed
- Lower fuel consumption

Maximum productivity with perfect rations
- Balanced rations, accurate dry matter values obtained in the field and with the stationary unit
- Higher silage quality

Efficiency for contractors and perfect silage results for customers.

Superior customer service
- Differentiation through higher quality feed and presentation
- Valuable crop information
- Additional services such as additive application or feed ration balancing

Increased efficiency and productivity
- Automatic length of cut adjustment for optimum throughput
- Optimised additive dosage based on dry matter, cut length and throughput
- Additional GreenStar solutions such as AutoTrac assisted steering

Intelligent management
- Automated documentation for business management
- Optional on-board printer for field-level proof of the work done
- Additional GreenStar solutions such as JDLink

Optimised supply management and maximum output for biogas plants.

Supply management
- Top preservation and reduced losses through optimum length of cut adjustment and additive dosage
- Automated documentation for business management

Fermentation and bacteria control for maximum output
- Accurate crop mass measurement
- Accurate crop dry matter measurement to manage best feeding ratios

HarvestLab brings a new level of innovative and intelligent technology to your operation, regardless of whether you’re a livestock producer, contractor or run a biogas facility.

- Lower costs
- Better silage quality
- Intelligent management
- Higher efficiency and productivity
- Field and office use to make the most out of your investment

*Up to 25% higher compaction, 15% less heating losses (University of Bonn, 2006); Standard silage inoculants can improve dry matter recovery by 1 to 2% and can improve animal performance by 3 to 5% (US Dairy Forage Center, Wisconsin)
There’s a long list of reasons to adopt a GreenStar System … but one of the best reasons is the long line of people you’ll find standing behind every product.

Your John Deere dealer helps you find the right set of intelligent solutions that pay off with higher returns. All the components work together and the entire system is backed by a single dealer who knows how important it is to keep your equipment running at peak condition.

John Deere trained professionals in your country are ready to support your dealer to help troubleshoot any problem hardware and in-cab software.

**Stellar web support**

A dedicated customer support website, www.JohnDeere.co.uk/stellarsupport, gives you the tools you’ve been asking for and more! Downloadable software updates, position receiver activation, operator’s manuals and tutorials are available 24 hours a day. Also, bi-yearly software updates with new features and continuous product improvements are available FREE OF CHARGE, all available at the click of your mouse.

**Easy to use Technology – Support you can rely on.**

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