

HARVESTLAB™ 3000

ONE SENSOR - THREE APPLICATIONS



JOHN DEERE



SELF-PROPELLED FORAGE HARVESTER



HarvestLab 3000 simultaneously measures the dry matter and various constituents of harvested crops. Its sensor uses near-infrared-reflectance (NIR) technology that takes more than 4,000 readings per second to produce instant and highly accurate data on-the-go.

That data can be sent wirelessly to the John Deere Operations Center to view in Field Analyzer. You can analyze data from completed fields or view where field work is in process, making

it easier to make operational decisions. Up to 4 nutrients can be site-specifically documented and can be used to create prescription maps for fertilizer application. Fitted to a Self-Propelled Forage Harvester, HarvestLab 3000 enables automated length of cut adjustment and inoculant dosing depending on dry matter content, ensuring optimum silage compaction and conservation.

Additionally, livestock and dairy farmers profit from real-time detection of changes in feed quality. This gives them greater



control over the dosage of silage additives with the ADS Twin Line System, which allows you to add two different inoculants together.

Crop moisture can vary more than 20% in a single field, which requires different cut lengths to ensure ideal silage compaction. And crop nutrition constituents can also vary greatly, which directly affects feed quality and animal digestion.

You can achieve better livestock health and profit from real-time detection of changes in feed quality while having greater control over the use of silage additives. And if you're growing forage to sell, you can show precise constituent documentation.



Daily analysis is critical to ensure proper bunk management, feed rationing and livestock health. As a result, you can save on unnecessary supplements while achieving higher yields in beef or dairy production.

The HarvestLab 3000 sensor and stationary kit allows you to set up a mobile lab in the barn, field office, or anywhere feed analysis is needed. The components of a total mix ratio (TMR) can be measured every day to ensure the correct mix ration

and achieve the maximum milk yield. Measured data can also be downloaded from the HarvestLab 3000 sensor and saved to a computer for record-keeping purposes or to share with a nutritionist. You can easily connect the HarvestLab 3000 sensor with the HarvestLab 3000 stationary kit. The sensor can be removed from a forage harvester or manure tanker in a matter of minutes. The stationary kit offers a practical and easy-to-use solution to measure forage quality, no matter where you are.



The table top application uses an intuitive web interface, which has a detailed step-by-step measurement procedure. You can store measurements or export them.

MANURE CONSTITUENT SENSING



Nutrient values in manure slurry vary even after days of mixing and even within one tank load as they settle during transport. Under-application leads to compromises on yield, while over-application leads to down crop and might cause environmental implications as well as issues with legal regulations.

With HarvestLab 3000 Manure Constituent Sensing, you can get on-the-go nutrient analysis with more than 4,000 readings per second as well as document application site-specifically

and identify individual nutrient gaps. You can then use as-applied data in John Deere Operations Center, and adjust your commercial fertilizer application rates to achieve your yield goal (or to accurately execute your total nutrient plan to achieve the yield goal).

Manure Constituent Sensing can be retrofitted to equipment you currently own — either a tanker or a drag line system.



1. Site-specific Application – Manure Sensing is controlled via the Gen 4 or GS3 2630 display. Prior to application, you define the target rate for one nutrient. You can then define a limit rate for a second nutrient. For an even higher level of precision you can also upload site specific prescription maps.



2. The NIR sensor constantly compares actual nutrient levels with target levels and automatically controls tractor speed to ensure the desired nutrient rate is applied.



3. Documentation – Up to 4 nutrients can be documented site-specifically and sent to the Operations Center. Based on this information, prescription maps for secondary commercial fertilizer application can be derived and sent back to the machine. This saves on fertilizer costs and optimizes the nutrient supply for your crops.

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Self-Propelled Forage Harvester



Table Top



Manure Constituent Sensing

HARVESTLAB 3000

	SPFH	Mobile Laboratory	Tank or Drag Line
HarvestLab 3000 Sensor	■	■	■
Forage	■	■	–
Turn Table & Stationary Kit	–	■	–
StarFire™ Receiver	■	–	■
Gen 4 or GS3 2630 display	■	–	■
Manure Constituent Sensing	–	–	■
Manure Mounting Kits	–	–	■

AWARD WINNING TECHNOLOGY

HarvestLab technology has proven itself in the field for years, and is a consistent favorite on the awards circuit.

Agritechnica
Silver Medal 2007
HarvestLab

Agritechnica
Silver Medal 2011
Constituent Sensing

Fima Medal 2014

Agrotechnik
Bronze Sickel 2014

Agritechnica
Gold Medal 2015
Connected Nutrient
Management

** Specifications and design subject to change without notice.*

