



John Deere Harvest Lab Season Checklist & Calibration Procedure

Pre-Season

In the Office:

- ☐ Review the latest GS2 Basic Operator's Manual and Yield Calibration Instructions
- ☐ Download the latest GS2 System update via Live Update

In Apex (if using documentation):

- ☐ Backup and clean up last year's harvest data on the Data Card (or from internal memory on 2630 displays)
- ☐ Enter all Farm and Field Names
- ☐ Enter all seed/variety names
- ☐ Save all setup data to the Data Card

In Machine:

- ☐ Update components with the latest software: GS2/GS3 display, StarFire receiver, Harvest Monitor Controller, HarvestLab Sensor
- ☐ Zero all field and crop totals from last year's harvest
- ☐ Check mass flow sensor for damage and remove crop buildup from between feed rolls
- ☐ Complete a feed roll height calibration (see Operator's Manual)
- ☐ Check HarvestLab's sapphire lens for wear and proper installation/adjustment
- ☐ Complete a wave length standard on the HarvestLab sensor
- ☐ Contact dealer for full dealer calibration

Mid-Season

In Machine:

- ☐ Be sure to change crop when needed
 - This changes the moisture curve for the crop and also assists in accurate mapping
- ☐ Change field numbers as enter new field and before harvesting any crop on the new field
- ☐ Double check accuracy of harvester width (crop swath)
- ☐ Keep good track of load numbers
- ☐ Begin each day with a calibration (see procedure below)

Calibration Procedure

- ☐ Make sure feed rolls are set to "0" and appropriate crop is selected
- ☐ Press calibration status key so it changes from "Stopped" to "Running"
- ☐ Begin filling truck, when truck is filled press calibration status key so it changes from "Running" to "Stopped"
 - Long, straight lines during calibration are best, don't make turns
 - Harvest at the speed the operator expects to run, constant speed
- ☐ Weigh truck and insert *net weight* into calibration screen. CalFactor should then be updated.
- ☐ **Calibrations should be conducted once a day or when the moisture level changes by more than 5 points, but no more than once per field**

Agrinetix, LLC offers calibration services, assistance setting up monitor with field/crop/equipment information, and yield summary services. Contact at (877) 978-5477 and www.agrinetix.com.

This checklist was created as part of a project which is a collaboration between the Cornell Nutrient Management Spear Program and Agrinetix.

*Adapted 1/2013 from John Deere's SPFH GreenStar System Pre-Season Checklist
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