

Create Configuration

A wizard is used to select or create a configuration that includes Combine, Header and Crops settings.

The configuration can be started in two places:



Upon completion, the Operating Configuration will then be viewable when starting a new Field Operation with the Harvest Operation Wizard.



The **Manage Equipment** button can be used to create or edit specific vehicles and implements.

Load Configuration

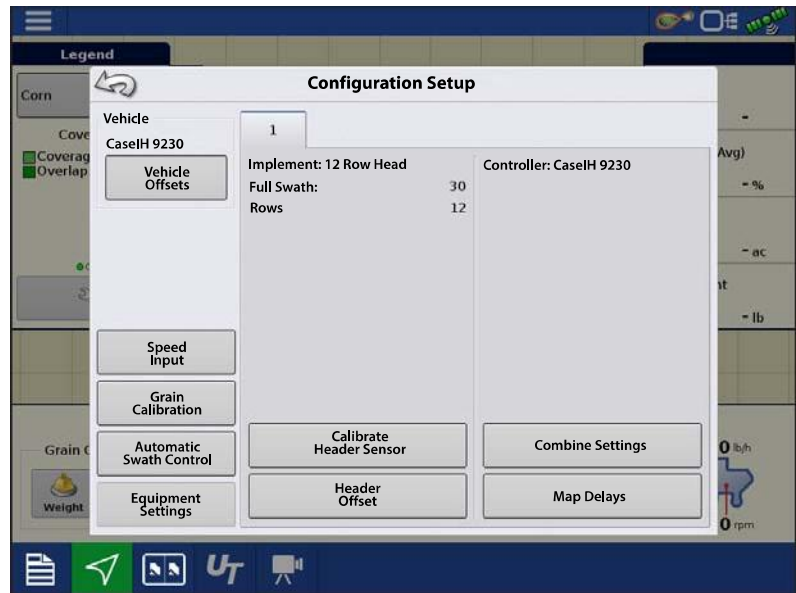
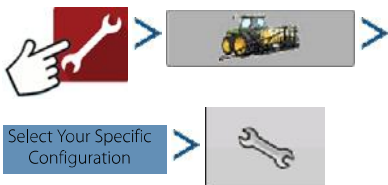


Press the Harvest app from the home screen. Follow Field Operation wizard prompts to load the configuration to the Mapping screen.

Harvest Calibration

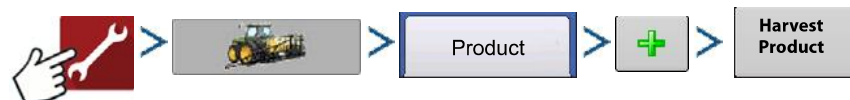
A configuration and harvest product specific calibrations must be completed before operating. The configuration setup page will show up as the last step of building a configuration.

Access configuration setup anytime from:



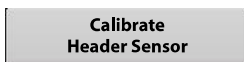
Harvest Products

Grain weight calibrations are stored based on harvest products. A harvest product will need created for each crop type harvested. In some instances multiple harvest products per crop type may exist. In these instances each harvest product will require separate calibrations.



Calibrate Header Height Sensor

Prior to logging data the combine header height sensor must be calibrated for the harvest product to be used. Follow the instructions shown on the screen from the Calibrate Header Sensor wizard.



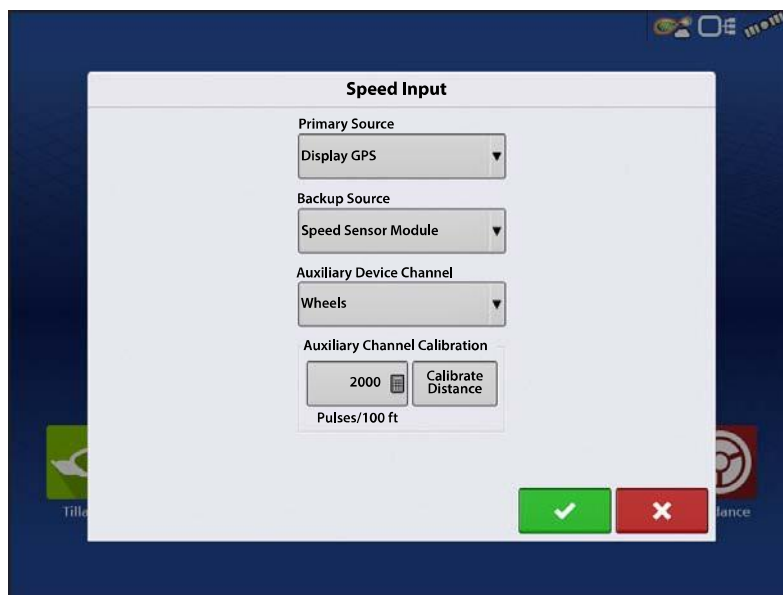
NOTE!: If Reset All is pressed the sensor will have to be calibrated for all headers!

Calibrate Distance

If you are not using GPS for ground speed, you must calibrate the ground speed input for accurate speed and area calculations. If you are using GPS, it is recommended to calibrate distance in the event of GPS loss. Follow the instructions shown on the screen.



i NOTE!: Calibration settings can be manually adjusted if desired by pressing button above Pulses/100 ft and making small changes to the setting.



Vibration Calibration

Vibration Calibration must be performed with the correct head on the combine, and repeated for each harvest product used. This is prompted the first time a harvest product is loaded to the Mapping screen. From configuration setup go to:



1. **Run Separator** — Start the separator and feeder house with the proper header attached. Run at full speed.

i NOTE!: Do not harvest a crop during the Vibration Calibration process.

2. **Press Start** — With the combine separator running at full operating speed with the header engaged, press the Start button. The display counts down 60 seconds.
3. **Calibration Number Displayed** — When the vibration calibration is complete, a message appears underneath the Start button stating “Calibration Complete.” Next to this, the vibration calibration number is displayed. Press to return to the Calibration Tab. The separator may now be turned off.

i Note!: Rest of calibration accessed from mapping screen. See “Map View” on page 1.

Grain Weight Calibration

To accurately measure harvested crop, the Ag Leader Yield Monitor must be calibrated. For each harvest product a calibration load/loads must be harvested and paired with the actual load weight measured by a weigh system. Weight calibration can be completed at any time during the season; however it is recommended that calibration be completed at the beginning of the season. Follow the calibration guidelines based on weigh device for best results.

Calibration Methods

Calibration can be completed with one or two calibration loads. More than two calibration loads are possible, but should not be needed in most cases.

i Note!: One and Two load Calibration is only available on InCommand v2.5+ Displays.

One Calibration Load

Accuracy good enough to see high/low yield trends in the field and make informed decisions based on yield. Accuracy is best when operating at normal operating grain flow rates.

Two Calibration Loads

High quality accuracy through standard grain flow ranges.



Extra calibration loads (more than 2) can be entered for grain flow rates where more accuracy is desired.

Calibration Load Flow Range

Follow suggestions based on how many calibration loads will be completed.

- **1st calibration load** – Harvest at normal full flow operating range for combine.
- **2nd calibration load** – Harvest at 50% normal operation range for combine
- Additional calibration loads – Harvest at Incremental speed/flow range changes excluding 1st and 2nd calibration load ranges

Taking a Calibration Load

1. Start new load



2. Harvest calibration load

- A. Follow calibration load size suggestions based on weigh device used. See [“Selecting Weigh Device” on page 10.](#)

3. End calibration load



4. Empty grain tank

- A. Empty the grain tank completely onto weight or transport device. Pay attention and verify all calibration load grain is accounted for.

5. Name calibration load

- A. Naming calibration loads is a simple way to track speed/flow range calibration load was taken at for later reference. Example: Combine Name–full flow

- B.  to change load name

6. Weight and record calibration load weight

- A. Record actual weight of calibration load taken from weigh device and enter

Auto Calibration



The AutoCal weight feature automatically adjusts grain weight calibration after an actual weight is entered into a calibration load, or a prior calibration load is checked/unchecked from the Weight Calibration page. AutoCal defaults to active. When AutoCal is unchecked the calibrate button must be pressed each time the calibration needs to be updated with new loads.

Adding and Removing Calibration Loads within Existing Calibrations

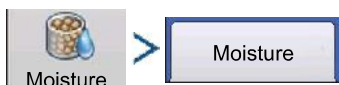


Calibration loads can be added or removed from the existing calibration at any time through the Weight Calibration page. This can be used to remove calibration loads taken that have a high error percentage or add calibration loads at specific flow ranges to improve calibration.

Only loads that are check marked are used in the active calibration.



Moisture Calibration



A moisture calibration only needs to be done once per crop, per season. Changing this calibration will affect all previously-harvested data.

- Measure Moisture on Grain Samples** — Randomly sample grain harvested into an active region, then measure moisture using an accurate moisture tester.
- Adjust Moisture** — On the Moisture Calibration screen, use / to adjust the moisture so that it matches the known moisture of the sample.

Press when finished.

Manual Moisture Setting

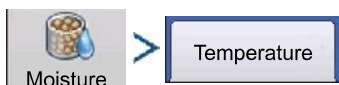


The "Use Manual Moisture" setting allows users to adjust moisture for a specific region. Unlike the Moisture Calibration, which affects all previously-harvested data, a Manual Moisture setting only affects data within a specified Region.

- Check the Use Manual Moisture check box.
- Use / to adjust the moisture to the desired value.



Press when finished.

Temperature Calibration



A Temperature Calibration only needs to be performed once per season. Changing this calibration will affect harvested data collected after the calibration.

Only calibrate the temperature before harvesting begins.

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1. **Place Combine in Shady Spot** — Leave the combine parked in a shaded area or a shed for a few hours. The temperature calibration should not be performed if the sensor has been in direct sunlight.
 2. **Take Air Temperature Reading** — Take an accurate air temperature reading using a thermometer in the same shaded area.
 3. **Enter Outside Air Temperature** — Use  /  to enter the known outside air temperature. Make the proper adjustments until the Calibrated Temperature shown at the top of this screen reflects the correct air temperature.

Press  when finished.

Retiring Calibration Loads



Harvest product calibrations can be retired. When pressed, all calibration loads associated with the harvest product will be removed from the system and a new calibration will be started. This will require a new vibration calibration, grain weight calibration, moisture calibration, and temperature calibration to be completed.

Selecting Weigh Device

Calibration can be completed using either a certified scale, weigh wagon, or a grain cart with calibrated scales. Determine the weigh device that best fits the needs of the operation. For best results use the same weigh device throughout the calibration process of a harvest product.

Certified Scale Guidelines

1. Calibration load size: 1 full combine grain tank.
2. Always start calibration loads with an empty combine and transport device.
3. Calibration loads must be transported and tracked separately from other harvested grain.
4. Avoid starting a calibration load opening a field or when switching between varieties.

Weigh Wagon Guidelines

1. Calibration load size: 3000lbs up to weight wagon max capacity.
2. Always start calibration loads with an empty combine and weigh device.
3. Use consistent load size for all calibration loads taken.
4. Entire calibration load must fit in weigh wagon without overfilling wagon or leaving grain in combine grain tank.
5. Unload from combine directly into weight wagon.
6. Avoid starting a calibration load opening a field or when switching between varieties.

Grain Carts Guidelines

1. Calibration load size: 1 full combine grain tank.
2. Use consistent load size for all calibration loads.
3. Grain cart scale must be calibrated. Ideally calibration is/was completed using one full combine grain tank worth of grain. Recalibrating a grain cart is not the same as taring, or zeroing the scale. Follow calibration procedure within grain cart scale user manual.
4. Before starting a calibration load, make sure the combine and grain cart have harvested and dumped at least 10-20 bushel of grain to prime the augers.
5. Always start calibration load with an empty combine and weigh device.
6. Only unload in a grain cart sitting still. Weigh calibration load before grain cart is moved to dump.

7. Unload into the grain cart when on level ground. Ideally slope should be less than 3.5%.
8. Unload directly into the center of the grain cart to achieve symmetrical loading.

Grain Cart Weighing Errors

Grain carts with scales provide a convenient way for most operations to easily weigh calibration loads. Ag Leader has done extensive testing to understand how to get the best possible calibration accuracy when using grain cart scales. Through this testing many sources of error were discovered and documented. Follow the guidelines above to minimize common errors when calibrating using a grain cart to achieve an ideal grain cart fill.

For more information about sources of grain cart error and why visit www.support.agleader.com.

