Initial Harvest Calibrations

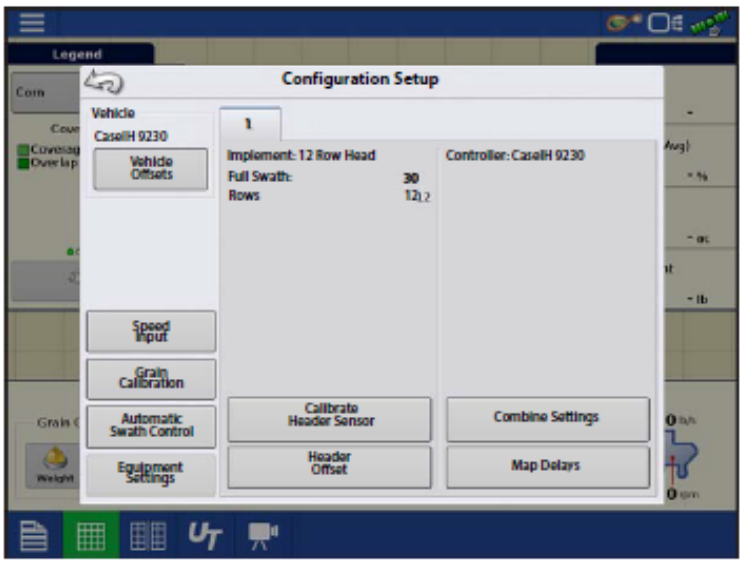
Distance, Header Height, Vibration

A configuration and calibration must be completed before operating. This section will work through the various steps involved.

The configuration setup page will show up as the last step of building a configuration using the operation wizard. If a configuration is built using the setup menu the configuration setup will need to be accessed using the following steps:

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.



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

Calibrate Header Sensor

Prior to logging harvest data, you must calibrate the header sensor. Crops must be set up within the system to proceed with the calibration routine. Follow the instructions shown on the screen.

Vibration Calibration

The vibration calibration must be performed with the correct head on the combine, and repeated for each crop harvested. This is prompted at the Home screen the first time a crop time is harvested. A harvest product must be in the system before vibration cal will be available.

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

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. You may now turn off the separator

PREMIER TECHNOLOGIES
ELITE. PRECISION. AGRICULTURE.

@PTprecisionag
Premier Technologies
www.ptprecisionag.com

Chris: 641-751-3936
Alec: 641-257-7989

Initial Harvest Calibrations

Temperature

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.

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.

Final Harvest Calibrations

Moisture

Moisture Calibration

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

1. **Measure Moisture on Grain Samples** — Randomly sample grain harvested into an active region, then measure moisture using an accurate moisture tester.
2. **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.

PREMIER TECHNOLOGIES
ELITE. PRECISION. AGRICULTURE.

@PTprecisionag
Premier Technologies
www.ptprecisionag.com

Chris: 641-751-3936
Alec: 641-257-7989

Final Harvest Calibrations

Weight

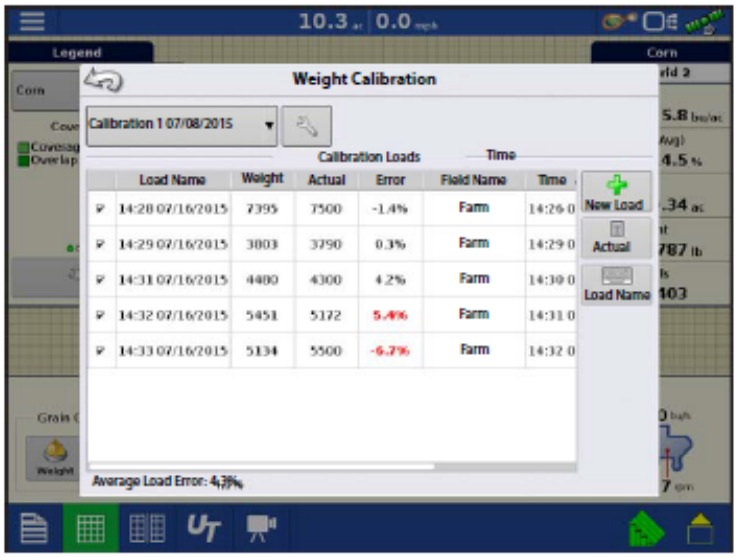
Grain Weight Calibration

Before the display can accurately measure harvested bushels, you must calibrate the display by entering in actual load weights into the display for each grain type. You must obtain these actual load weights by weighing the grain from a load on accurate scales. To obtain accurate results, you must harvest between four and six calibration loads. You can complete a weight calibration at any time during the season; however it is recommended that you calibrate grain weight at the beginning of the season.

Each calibration load should be at a different grain flow rate through the combine, ranging from low flow through high flow. This can be accomplished by varying speed or swath width between calibration loads.

Start the calibration procedure with the combine stopped, the combine grain tank empty, and a hauling vehicle empty.

1. **Start New Load —**
   Weight > New Load
2. **Calibration Load warning** — Read warning, press ✓ when finished.
3. **Harvest Calibration Load** — Harvest a load - ideal load weights are between 3,000 and 6,000 pounds.
4. **End Load** — Press End Calibration.
5. **Calibration Load warning** — Read warning, press ✓ when finished.
6. **Name Load** — Display will give load a default name of time and date. Use ⌨ to change the load name.



7. **Empty Grain and Weigh Load** — Empty the grain tank completely onto a truck or wagon, and weigh it with an accurate scale. Record each individual load weight to be entered into the display. (No grain from any other combine should be unloaded into this hauling vehicle).
8. **Weigh and Record Load Weight** — highlight the load in the Weight Calibration screen and enter the actual value.
   - If you are using a weigh wagon to weigh the grain, make sure the wagon has been calibrated properly.
   - Only use one scale during this calibration process.
   - Use the same vehicle for all calibration loads.
   - Do not use a semi truck, as this vehicle's capacity is too large for a calibration load.
9. **Uncheck Loads With Excessive Error Percentages** — At the Grain Calibration screen, take note of any calibration loads that have excessive error percentages.

   You should be able to calibrate the display for grain weight to an average error of 1% to 3%. If the average error is more than 3%, uncheck the load with the maximum error.

   Any load that is checked is automatically included in the calibration.

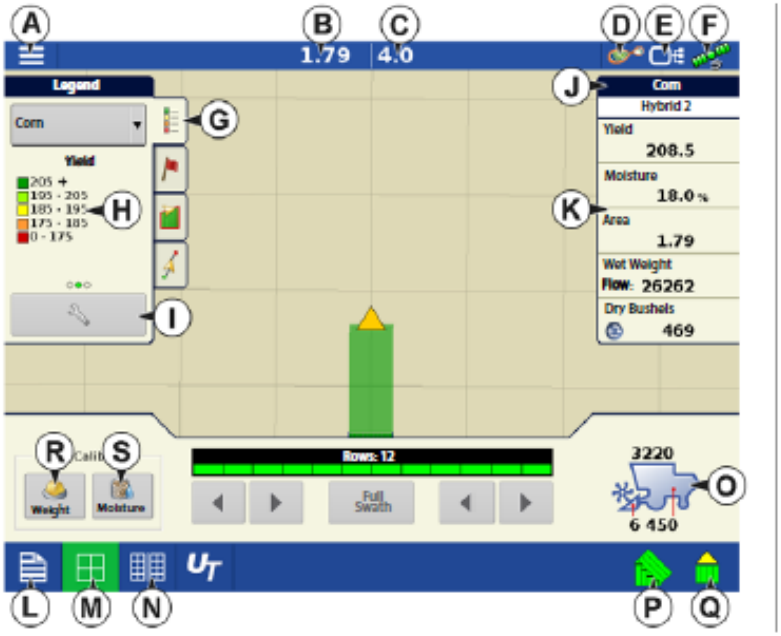
PREMIER TECHNOLOGIES
ELITE. PRECISION. AGRICULTURE.

@PTprecisionag
Premier Technologies
www.ptprecisionag.com

Chris: 641-751-3936
Alec: 641-257-7989

Map View

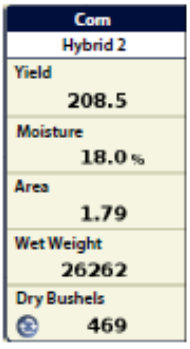
Once a configuration has been completed, and a field operation has been started, the Map View screen appears.



A. Menu button
B. Total Logged Field Area
C. Ground Speed
D. AgFiniti Status Indicator
E. Diagnostics Status Indicator
F. GNSS Status Indicator
G. Legend Tab
H. Map Legend (varieties)
I. Legend Select
J. Crop
K. Status Items
L. Event Summary
M. Map View button
N. Split screen
O. Harvest Diagnostics
P. AutoSwath
Q. Logging Status
R. Weight Calibration, See "Grain Weight Calibration" on page 7.
S. Moisture Calibration, See "Moisture Calibration" on page 7.

Pressing the Map View button (M) will cycle between the available mapping screen views.

(K) Harvest Status Items



- **Yield** — Displays the instantaneous yield while there is grain flow and the average yield when grain flow is not present.
- **Moisture** — Displays the instantaneous moisture when there is grain flow and the average when there is no grain flow.
- **Area** — Shows the area harvested for the current region.
- **Wet Weight** — Shows the actual weight that has been harvested for the current region.
- **Wet Bushels** — Shows the actual bushels that have been harvested for the current region.
- **Dry Bushels** — Displays the actual number of bushels at the specified dry moisture percentage.
  - If the actual moisture is below the set dry moisture percentage and "Expand Bushels for All Grains Below Dry %" is not checked, it will show actual bushels.
  - If the actual moisture is below the set dry moisture percentage and "Expand Bushels for All Grains Below Dry %" is checked, it will display bushels as if the moisture of the grain is at the specified dry percentage.

The **Wet Bushels** and **Dry Bushels** Status Items do not appear if you are using metric system measurements.