

Quick Reference Combine Calibration Sheet

Suggestions: Verify that your system has the latest software by going to StellarSupport.com, 888-GRNSTAR, or contact your local JD dealer. Perform an inspection of the top of the clean grain elevator. Make sure the elevator chain is tightened and look for excessive wear on the paddles, mass flow plate, and top door weldment (00/10 Series). Clean any debris that may be present. Perform an inspection of the moisture sensor and replace any worn parts and clean any debris that may be present. If any parts are visually worn, replace them before calibrating. (Note: adjustments after calibration will affect accuracy and will require a new calibration) Perform calibrations in consistent conditions if possible. Avoid calibrating on end rows or point rows.

1. Verify that your grain tank is empty and that you are using a calibrated scale for your weighing device. Use the **same scale** for all the calibration loads.
2. Press **Setup**.
3. Press **Yield Monitor/Mapping**.
4. Press **Page** to navigate to page 2.
5. Press **Start**.
6. Harvest at Full Capacity **keeping the grain flow as consistent as possible** (avoid increases and decreases in speed if conditions allow).
7. Once you have harvested a tank full stop harvesting and allow the separator to empty.
8. Press **Stop** on the display, unload, and weigh the grain. (Note: You may keep harvesting until the correct weight is returned. Post calibration is possible in JDmap with a mapping system).
9. Press **Change** on the display and enter the scale weight. (This will replace the displayed GreenStar Weight.) Press **Enter** when finished.

Note: If you repeat steps 1-8 the GreenStar weight should be within 3% to 5% of the scale weight. If you do not achieve these results, consult your John Deere dealer to inspect the system.

“FINE TUNING THE CAL FACTOR”

If an operator wants to “fine-tune” the system further, record the new calibration factor from Setup – Yield Monitoring or Yield Mapping – Page 2 on a piece of paper and repeat steps 1 – 9 at least two more times.

After each calibration procedure, record the new calibration factors on a piece of paper and when you are finished average all the calibration factors.

Example:

Load 1 new calibration factor = 856
Load 2 new calibration factor = 871
Load 3 new calibration factor = 866

New calibration factor: $856 + 871 + 866 / 3 = 864$

Enter the new averaged calibration factor on **Setup – Yield Monitoring or Yield Mapping – Page 2** by pressing letter “G”

10. Press **Calibration Mode** and you will see **Flow Comp Mode** displayed.
11. Verify that your grain tank is empty and that you are using a calibrated scale for your weighing device.
12. Press **Start**.
13. Start harvesting at ½ the normal ground speed. You will see the moving indicator move across the display. Keep the cursor in the middle of the Target Zone by adjusting your ground speed, which in turn increases, or decreases flow rate. (Note: Flow Comp is easier to perform in consistent flow conditions.)
14. Harvest 5,000 to 7000 lbs. of grain then stop harvesting and allow the separator to empty.
15. Press **Stop** on the display and unload and weigh the grain.
16. Press **Change** on the display and enter the scale weight. (This will replace the displayed GreenStar Weight.) Press **Enter** when finished.

“FINE TUNING THE FLOW COMP NUMBER”

If an operator wants to “fine-tune” the system further, record the new Flow Comp number from Setup – Yield Monitoring or Yield Mapping – Page 2 on a piece of paper and repeat steps 1 – 12 at least two more times.

IMPORTANT: The combine must be operated at approximately the same speed and under the same type of conditions the initial Flow Comp procedure was performed.

After each calibration procedure, record the new Flow Comp number on a piece of paper and then average the new Flow Comp numbers.

Example:

Load 1 new Flow Comp number = .81
Load 2 new Flow Comp number = .77
Load 3 new Flow Comp number = .75

New Flow Comp Number: $.81 + .77 + .75 / 3 = .78$

Enter the new averaged Flow Comp number on **Setup – Yield Monitoring or Yield Mapping – Page 2** by pressing letter “C”.

You're Finished.

To check your accuracy throughout the season:

From **Run Page 1** press the **Page** button and press letter “F” to clear the weight and moisture counter. Harvest a wagon, truck, or semi load of grain and write down the GreenStar weight. Weigh the grain. GreenStar weight should be within 3-5% of scale weight. If your system is greater than 5% off it is time to recalibrate. (Note: It is common to perform multiple calibrations in each grain type during the course of a season to maintain desired accuracy).