

# Multi-Point Calibration Checklist



**Farmers Mutual Hail**  
Insurance Company of Iowa

## Instructions

This document will help you perform the steps necessary to calibrate a multi-point combine yield monitor system. **The calibration must be within 3% accuracy.** This document does not outline the steps for a single point combine yield monitor system. For these, please contact your agent for the appropriate calibration report.

**IMPORTANT! Refer to your monitor manufacturer specifications prior to completing the Calibration Checklist.** Please check each box in the Calibration Checklist section to confirm you have performed the necessary steps.

## Best Practice Recommendations

**Perform 5 to 7 calibration loads at the beginning of the season for each crop harvested.** Doing so provides the system the ability to capture a range of grain flows at different machine speeds, and better interpret non-calibration grain flow rates throughout the season.

**Ensure the machine speed (flow rate) is consistent during the calibration load, and harvest at least 3,000 pounds.** Calibration loads must be uniform in size – for best results, consider harvesting no more than 8,000 pound calibration loads.

**Recalibrate and/or confirm calibrations if you experience anomalies in your load values** (i.e. if the test weight changes are more than 6-8 pounds, or the moisture changes are more than 8-10 points on average). To ensure this, complete the calibration process in a representative area of the field using a properly calibrated weigh wagon.

For FMH policyholders, **maintain a calibration report each year to be able to provide proper documentation in the event of a claim.** On the reverse side of this document, you will find a log that can be used to capture the required information for each load, as determined by loss procedures.

## Calibration Checklist

- ☐ **1. Temperature Calibration**
  - Perform once annually.
  - Do not perform temperature calibration when sensor is in direct sunlight.
- ☐ **2. Mass Flow Vibration Calibration**
  - Calibrate to manufacturer specifications.
  - Complete this step for each harvested crop.
  - This calibration will be saved under the crop identified in the combine setup. Be sure to select the current crop.
- ☐ **3. Moisture Sensor Correction**
  - Complete this step once per season for each harvested crop.
  - Temperature calibration should be completed before this correction. Be sure to set the moisture correction value to 0.0 before beginning the process.
- ☐ **4. Weight Calibration**
  - Complete this step for each harvested crop.
  - Calibration loads must be uniform in size and weigh over 3,000 pounds.
  - Mass Flow Vibration and Moisture Sensor Temperature calibration must be completed before Weight calibration.
  - Ensure 5 to 7 calibration loads are 'checked' on the monitor before performing the calibration.

# Multi-Point Calibration Report



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|            |  |                 |  |               |  |                 |  |            |  |
|------------|--|-----------------|--|---------------|--|-----------------|--|------------|--|
| Crop Year: |  | Harvested Crop: |  | Scale Source: |  | S-Series Model: |  | Farm Name: |  |
|------------|--|-----------------|--|---------------|--|-----------------|--|------------|--|

| Calibration<br>Time & Date | Field<br>Name | Machine<br>Speed        | Machine Displayed<br>Weight | Scale Measured<br>Weight | +/- Difference<br>(Weight/Pct.) |  | Avg. Crop<br>Moisture Percent |
|----------------------------|---------------|-------------------------|-----------------------------|--------------------------|---------------------------------|--|-------------------------------|
| Time<br>Date               |               | +0.5 MPH                |                             |                          |                                 |  |                               |
| Time<br>Date               |               | Normal Harvest<br>Speed |                             |                          |                                 |  |                               |
| Time<br>Date               |               | -0.5 MPH                |                             |                          |                                 |  |                               |
| Time<br>Date               |               | -1.0 MPH                |                             |                          |                                 |  |                               |
| Time<br>Date               |               | -1.5 MPH                |                             |                          |                                 |  |                               |
| Time<br>Date               |               | -2.0 MPH                |                             |                          |                                 |  |                               |
| Time<br>Date               |               | -2.5 MPH                |                             |                          |                                 |  |                               |
| Time<br>Date               |               | ____ MPH                |                             |                          |                                 |  |                               |
| Time<br>Date               |               | ____ MPH                |                             |                          |                                 |  |                               |
| Time<br>Date               |               | ____ MPH                |                             |                          |                                 |  |                               |