Multi-Point Calibration

PRECISION RISK MANAGEMENT

Instructions

This document will help you perform the steps necessary to properly calibrate a multi-point combine yield monitor system.

Refer to your monitor manufacturer specifications prior to completing the Calibration Report.

Best Practices 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-calibrations 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.

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.

Verification List

1. Temperature Calibration - complete this step once annually   when sensor is not in direct sunlight.

2. Mass Flow Vibration Calibration - Calibrate to manufacturer specifications. Complete this step for each crop. This calibration will be saved in the combine setup under the identified crop.

3. Moisture Sensor Correction - Complete this step once per season for each 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 Accuracy Check - Use the reverse side of this form to log calibration. RMA requires the monitor displayed weight be within 3% accuracy. To determine accuracy, you must calculate the difference percentage. Use the following calculation on the reverse side of this form to determine difference %.

100 x (Machine Displayed Weight - Scale Measured Weight) / Scale Measured Weight = Difference %

Multi-Point Calibration

PRECISION RISK MANAGEMENT

Farm Name	Crop	Scale Source	Combine Model	Monitor Type

Calibration Time & Date	Field Name	Machine Speed	Machine-Displayed Weight	Scale-Measured Weight	+/- Difference Weight %	Average Crop Moisture %
		+0.5 MPH				
		Normal Harvest Speed				
		-0.5 MPH				
		-1.0 MPH				
		-2.0 MPH				
		-2.5 MPH				
		____ MPH				
		____ MPH				
		____ MPH				
		____ MPH				
		____ MPH				
		____ MPH				