

GPS/Precision Farming Equipment Calibration Checklist

Pre-Calibration Assessment & Planning

Initial checks and planning before commencing any calibration procedures. This includes reviewing documentation, checking equipment health, and setting expectations.

Enter date				
Brief Description of I	-auinment Usa	ne Since I ast Cal	ihration	
Write something	-qaipment Osa;	- Control East Gai		
Equipment Type Tractor				
Combine				
Sprayer				
Planter				
Other				

Observed Issues or Concerns Prior to Calibration
Write something
Calibration Method Manual Automated/Software-Driven Combination
Upload Previous Calibration Records (if available) L Upload File
GPS Receiver Calibration Focuses on calibration specifically for the GPS receiver unit, including antenna alignment and error correction.
GPS Antenna Elevation Angle (Degrees) Enter a number
GPS Receiver Firmware Version Enter a number

Differential Correction Source (e.g., RTK, DGPS, WAAS) RTK DGPS WAAS Other
Baseline Length (for RTK systems, in meters)
Enter a number
Notes on Initial Signal Strength & Satellite Visibility
Write something
Time Since Last Calibration (Days)
Enter a number
Antenna Connection Type
SMA
☐ TNC ☐ Other
Date of Calibration
Enter date

Guidance System Calibration (Steering/Implement)

Covers calibration of the steering system (if applicable) and the implement guidance system (e.g., planter, sprayer).

Enter a number	
Implement Working Width (m)	
Enter a number	
Steering System Type	
Autosteer Manual Steering with Guidance Lines	
Implement Track Offset (cm)	
Enter a number	
Guidance Mode	
Point to Point	
_	
Point to Point Swath Following	

Enter date	
Implement Speed Ca	llibration Factor
Enter a number	
ariable Rate	Application (VRA) Calibration
ecific calibration proce rayer, and fertilizer app	edures for variable rate application equipment, including planter plicators.
Target Application Ra	ate (lbs/acre or similar)
Enter a number	
Ground Speed During	g Calibration (mph or km/h)
Enter a number	
Calibration Flow Rate	e (gallons/minute or liters/minute)
Enter a number	
Enter a number Nozzle Spacing (inch	nes or centimeters)

Application Method Sprayer Planter Fertilizer Applicator Other
Describe Calibration Procedure Followed (e.g., catch can method, simulated field)
Write something
Actual Application Rate (lbs/acre or similar) – Post Calibration
Enter a number
Calibration Adjustment Required? Yes No
Notes on Calibration Results & Adjustments Made Write something

Sensor Calibration (Yield/Moisture/NDVI)

Focuses on calibration of any sensors integrated with the precision farming system (yield monitors, moisture sensors, NDVI sensors, etc.).

Enter a number	
Yield Monitor Moisture Setting (for grain type)	
Enter a number	
Yield Monitor Test Weight Setting	
Enter a number	
Describe the calibration procedure for the yield monitor (including g	rain
Write something	
Moisture Sensor Calibration Factor (if adjustable)	
Enter a number	
Moisture Sensor Type (e.g., Capacitance, Dielectric) Capacitance Dielectric Other	
NDVI Sensor Calibration Offset (if adjustable)	
Enter a number	

Write something		
oate of Sensor	Calibration	
Enter date		
	·	
eld Verifi	ication & Accuracy Testing	
t-calibration ch	ecks and verification in the field to ensure accuracy ar	nd performanc
larification Fig		
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vernication Fie	Set My Current Location	
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Enter a number...

Enter a number	
Distance Error (Measured - Known)	
Enter a number	
Swath Overlap (if applicable)	
Enter a number	
Guidance Line Straightness Assessment (Visual) Excellent Good Fair Poor	
Observations & Notes on Field Performance	
Write something	
Date of Field Verification	

Overall Accuracy Result	
Acceptable	
☐ Needs Adjustment	
Unacceptable	
ocumentation & Record Keeping	
aintaining records of calibration dates, procedures, and results for future reference bubleshooting.	nce and
Calibration Date	
Enter date	
Calibration Start Time	
Equipment Serial Number	
Write something	
Calibration Procedures Performed (Detailed Notes)	
Write something	
GPS Accuracy (Horizontal)	
Enter a number	

GPS Accuracy (Vertical)	
Enter a number	
Calibration Method Used	
RTK Base Station	
WAAS	
SBAS	
Other (Specify)	
Notes/Observations Write something	
Calibration Data Files (e.g., logs, screenshots)	
♣ Upload File	
Calibrator Signature	