

Precision Farming Data Verification Checklist

Sensor Calibration & Validation

Verify sensor accuracy and calibration against known standards.

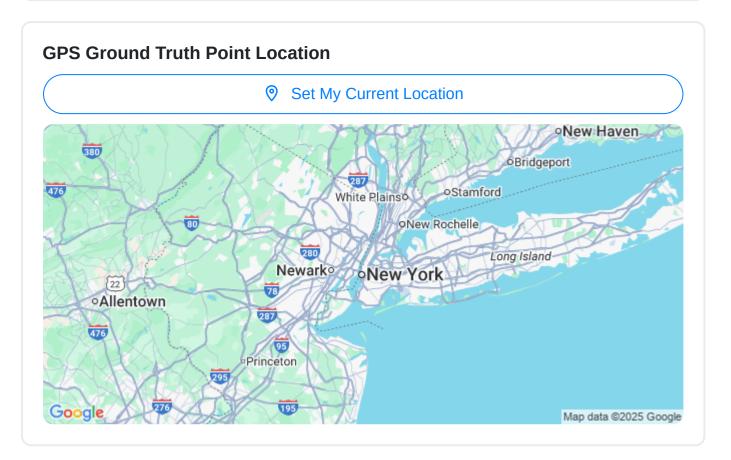
Enter a number	
Temperature Sensor Reading (°C)	
Enter a number	
pH Sensor Reading Enter a number	
_	
Calibration Status Needs Calibration Within Tolerance	

Enter date		
Nitrogen Sensor I	Reading (ppm)	
Enter a number		
ata Transn	nission & Connectivity	
eck for successful	data transfer from field devices to the platform.	
Transmission Sta	rt Time	
Signal Strength (d	dBm)	
Enter a number		
Connectivity Meth	nod	
☐ WiFi		
☐ Cellular ☐ Satellite		
LoRaWAN		
Data Transmissio	n Rate (Mbps)	

Success Partial Success Pailure Error Messages (if any) Write something Data Storage & Integrity confirm data is stored correctly and hasn't been corrupted. Database Size (GB) Enter a number Last Backup Date Enter date	
Error Messages (if any) Write something Data Storage & Integrity confirm data is stored correctly and hasn't been corrupted. Database Size (GB) Enter a number Last Backup Date Enter date	Success
Error Messages (if any) Write something Data Storage & Integrity Confirm data is stored correctly and hasn't been corrupted. Database Size (GB) Enter a number Last Backup Date Enter date	Partial Success
Data Storage & Integrity Confirm data is stored correctly and hasn't been corrupted. Database Size (GB) Enter a number Last Backup Date Enter date	☐ Failure
Data Storage & Integrity Confirm data is stored correctly and hasn't been corrupted. Database Size (GB) Enter a number Last Backup Date Enter date	Error Messages (if any)
Database Size (GB) Enter a number Last Backup Date Enter date	Write something
Enter a number Last Backup Date Enter date	
Last Backup Date Enter date	Database Size (GB)
Enter date	Enter a number
	Last Backup Date
Packup Start Time	Enter date
Dackup Start Tillie	Backup Start Time
Percentage of Storage Used	
Enter a number	Percentage of Storage Used

Backup Type (Full/Incremental)
Full
☐ Incremental
Error Logs/Messages
Write something
Data Engration Status (Enghlad/Dischlad)
Data Encryption Status (Enabled/Disabled) Enabled
Disabled
Disabled
Mara A a a como a como C. A li a como a como
Map Accuracy & Alignment
Ensure data layers and maps are accurately aligned and georeferenced.
GPS Accuracy (meters)
Enter a number
Coordinate System
□ UTM
State Plane
Latitude/Longitude

Description of Alignment Issues (if any) Write something...



Date of Alignment Check Enter date...

Time of Alignment Check

Variable Rate Application Verification

Validate that variable rate prescriptions are being applied as intended.

Enter a number	
Actual Application Rate (kg/ha)	
Enter a number	
Application Method	
Sprayer	
Fertilizer Spreader	
☐ Planter ☐ Other	
Avec Treated (lee)	
Area Treated (ha) Enter a number	
Enter a number	
Observations/Notes on Application	
Write something	
GPS Signal Strength	
Excellent	
Good	
Fair	
Poor	

Application Date	
Enter date	
Application Time	
rield Monitoring & Reporting	
Check yield data accuracy and consistency with field observations.	
Yield (Bushels/Acres)	
Enter a number	
Moisture Content (%)	
Enter a number	
Test Weight (lbs/bushel)	
Enter a number	
Yield Map Format	
Shapefile	
☐ GeoTIFF ☐ CSV	

Overall Data Quality Assessment: Excellent Good Fair Poor
Number of Missing Data Points
Enter a number
Explanation for any significant deviations or discrepancies.
Write something
Were prescribed rates properly applied? ☐ Yes
□ No
Unsure
Security and Access Control
Confirm user permissions and data security protocols are in place.
Two-Factor Authentication Enabled?
□ N/A

Number of Active User Accounts Enter a number	
Password Complexity Requirements Applies Yes No Partially	d?
Last Password Policy Review Date Enter date	
Data Access Permissions Reviewed? Role-Based Access Group Permissions Individual Assignments	
Details of Access Control Procedures Write something	

Equipment Functionality

Verify proper functioning of precision agriculture equipment.

Application Rate (L/ha) Enter a number Spreader Speed (km/h) Enter a number Sprayer Nozzle Condition Excellent Good Fair Poor Equipment Malfunctions Engine Issues Sensor Failure GPS Drift Navigation Error No Issues Detailed Description of Issues Write something	Enter a number	
Spreader Speed (km/h) Enter a number Sprayer Nozzle Condition Excellent Good Fair Poor Equipment Malfunctions Engine Issues Sensor Failure GPS Drift Navigation Error No Issues Detailed Description of Issues	Application Rate (L/ha)	
Enter a number Sprayer Nozzle Condition Excellent Good Fair Poor Equipment Malfunctions Engine Issues Sensor Failure GPS Drift Navigation Error No Issues Detailed Description of Issues	Enter a number	
Sprayer Nozzle Condition Excellent Good Fair Poor Equipment Malfunctions Engine Issues Sensor Failure GPS Drift Navigation Error No Issues Detailed Description of Issues	Spreader Speed (km/h)	
Excellent Good Fair Poor Equipment Malfunctions Engine Issues Sensor Failure GPS Drift Navigation Error No Issues Detailed Description of Issues	Enter a number	
Good Fair Poor Equipment Malfunctions Engine Issues Sensor Failure GPS Drift Navigation Error No Issues Detailed Description of Issues	Sprayer Nozzle Condition	
Fair Poor Equipment Malfunctions Engine Issues Sensor Failure GPS Drift Navigation Error No Issues Detailed Description of Issues	Excellent	
Equipment Malfunctions Engine Issues Sensor Failure GPS Drift Navigation Error No Issues Detailed Description of Issues	Good	
Equipment Malfunctions Engine Issues Sensor Failure GPS Drift Navigation Error No Issues Detailed Description of Issues	Fair	
☐ Engine Issues ☐ Sensor Failure ☐ GPS Drift ☐ Navigation Error ☐ No Issues Detailed Description of Issues	Poor	
Sensor Failure GPS Drift Navigation Error No Issues Detailed Description of Issues	Equipment Malfunctions	
☐ GPS Drift ☐ Navigation Error ☐ No Issues Detailed Description of Issues	Engine Issues	
No Issues Detailed Description of Issues	Sensor Failure	
No Issues Detailed Description of Issues	_	
Detailed Description of Issues		
	No Issues	
Write something	Detailed Description of Issues	
	Write something	

Last Maintenance Date	
Enter date	
Documentation & Audit Trail	
Ensure all verification steps and findings are documented for auditing	purposes.
Verification Date	
Enter date	
Verification Time	
Summary of Findings	
Write something	
Sensor Reading Comparison (Baseline vs. Actual)	
Enter a number	
Verification Status	
Pass	
☐ Fail ☐ Needs Review	
_	

Supporting Documents (e.g., Calibration Certificates) Upload File Verified By (Signature) Corrective Actions Taken (If Applicable) Write something...