ChecklistGuro

Harvest Loss Measurement Checklist

Planning & Preparation

Tasks to be completed before field measurements begin.

Date of Measurement Plan Creation

Enter date...

Objectives of Harvest Loss Measurement

Write something...

Crop Type

- [ ] Wheat
- [ ] Corn
- [ ] Soybean
- [ ] Rice
- [ ] Canola
- [ ] Other

Expected Yield (kg/ha or bu/ac)

Enter a number...

Description of Field History (previous crops, fertilization, etc.)

Write something...

Environmental Conditions to Consider (e.g., wind, humidity)

- [ ] High Wind
- [ ] High Humidity
- [ ] Rain
- [ ] Temperature
- [ ] Other

Personnel Roles and Responsibilities

- [ ] Assign Field Observer
- [ ] Assign Data Recorder
- [ ] Assign Equipment Operator
- [ ] Other

Field Selection & Stratification

Defining representative areas for loss assessment, ensuring variety and field conditions are considered.

Selection Method

- [ ] Random Sampling
- [ ] Systematic Sampling
- [ ] Judgmental/Purposive Sampling
- [ ] Stratified Random Sampling

Number of Sampling Points

Enter a number...

Justification for Sampling Points

Write something...

Field Characteristics Considered

- [ ] Soil Type
- [ ] Slope
- [ ] Fertility Gradient
- [ ] Disease/Pest Infestation
- [ ] Yield Variation

GPS Coordinates of Sampling Point 1

Set My Current Location

Area of Field (Hectares/Acres)

Enter a number...

Crop Variety

- [ ] Specify Variety
- [ ] Unknown

Notes on Field Variability

Write something...

Equipment & Materials

Ensuring all necessary tools and supplies are available and calibrated.

Combine Speed (km/h)

Enter a number...

Grain Moisture Content (%)

Enter a number...

Combine Header Type

- [ ] Flex Header
- [ ] Conventional Header
- [ ] Auger Header

Scale Capacity (kg)

Enter a number...

Calibration Certificates (e.g., weigh scales, loss impact cloth)

Upload File

Loss Impact Cloth Type

- [ ] Standard
- [ ] High Sensitivity

Impact Cloth Area (m²)

Enter a number...

Notes on Equipment Condition (e.g., wear, adjustments)

Write something...

Loss Measurement Techniques

Detailed procedures for conducting specific loss measurements (e.g., grain combine loss, fruit drop, pod shatter).

Combine Grain Loss Assessment Method

- [ ] Slat Method
- [ ] Tarpaulin/Sheet Method
- [ ] Grain Probe Method
- [ ] Other (Specify in LONG_TEXT)

Combine Forward Speed (km/h)

Enter a number...

Number of Combine Passes

Enter a number...

Description of Field Conditions (Moisture, Residue, Slope)

Write something...

Sample Area (m²)

Enter a number...

Photos of Loss Sample

Upload File

Fruit Drop Assessment Method

- [ ] Visual Estimation
- [ ] Collection Sheet
- [ ] Sweep Method
- [ ] Other (Specify in LONG_TEXT)

Notes on Loss Appearance (Color, Size, Damage)

Write something...

Data Recording & Analysis

Methods for accurate data collection and subsequent statistical analysis to calculate loss percentages.

Combine Speed (km/h or mph)

Enter a number...

Crop Yield (kg/ha or bu/acre)

Enter a number...

Measured Loss (kg or lb)

Enter a number...

Area Sampled (m² or ft²)

Enter a number...

Loss Measurement Unit

- [ ] kg
- [ ] lb
- [ ] t
- [ ] cwt

Date of Measurement

Enter date...

Time of Measurement

Notes/Comments on Measurement Conditions

Write something...

Photo/Video Evidence (Optional)

Upload File

Reporting & Documentation

Compiling results, creating reports, and maintaining a clear record of the entire measurement process.

Executive Summary of Findings

Write something...

Overall Harvest Loss Percentage (%)

Enter a number...

Loss Rate per Measurement Point (kg/ha or equivalent)

Enter a number...

Raw Data File (e.g., CSV, Excel)

Upload File

Methodology Description

Write something...

Standard Used (if applicable)

- [ ] ISO 16754
- [ ] Other (Specify in Long Text)

Report Creation Date

Enter date...

Limitations and Uncertainties

Write something...

Reviewer Signature

Quality Control & Validation

Procedures to ensure accuracy and reliability of the measurements.

Number of replicate measurements per transect/plot

Enter a number...

Calibration method used for loss measurement equipment

- [ ] Manufacturer’s recommended procedure
- [ ] Established Research Protocol
- [ ] Other (Specify in LONG_TEXT)

Details of 'Other' calibration method (if selected)

Write something...

Were measurements conducted by trained personnel?

- [ ] Yes
- [ ] No

Inter-observer variability coefficient (if multiple observers)

Enter a number...

Calibration records and equipment maintenance logs

Upload File

Date of equipment calibration

Enter date...

Describe any deviations from standard operating procedures observed during measurement.

Write something...