



Canopy Closure Assessment Checklist

Site Information & Planning

Records essential details about the assessment location and preparation.

GPS Coordinates of Assessment Site

 [Set My Current Location](#)



Assessment Date

Enter date...

Assessment Start Time

Crop Type

Write something...

Field/Block Identifier

Write something...

Field Area (hectares/acres)

Enter a number...

Purpose of Assessment

- ☐ Irrigation Management
- ☐ Fertilizer Application
- ☐ Disease/Pest Monitoring
- ☐ Yield Prediction
- ☐ Regulatory Compliance
- ☐ Other

Any Relevant Site History (e.g., recent weather events, previous crop)

Write something...

Equipment & Personnel

Confirms availability of necessary tools, personnel, and their training.

Number of Assessors

Enter a number...

Assessor Qualifications (e.g., Trained, Certified)

- ☐ Trained
- ☐ Certified
- ☐ Other (Specify)

Brief description of assessor training/experience

Write something...

GPS Device Status

- ☐ Functional
- ☐ Needs Calibration
- ☐ Not Available

Calibration Certificate (if applicable)

 Upload File

Drone Status (if used)

- ☐ Functional
- ☐ Needs Maintenance
- ☐ Not Available

Drone Model and Firmware Version (if applicable)

Write something...

Assessment Area Selection

Details how representative areas for canopy closure assessment were chosen.

Describe the criteria used to select assessment areas.

Write something...

Number of assessment areas selected.

Enter a number...

Selection method used for assessment areas (e.g., random, stratified, targeted).

- ☐ Random
- ☐ Stratified
- ☐ Targeted
- ☐ Systematic

GPS Coordinates of first assessment area.

 [Set My Current Location](#)



Describe any specific factors considered when choosing locations (e.g., variability in planting density, field history).

Write something...

Distance between assessment areas (in meters)

Enter a number...

Were areas avoided due to obvious issues (e.g., pest damage, waterlogging)?

☐

Yes

☐

No

Attach a map or diagram of assessment area locations.

 Upload File

Observation Methods

Describes the methodology used for estimating canopy closure (e.g., visual assessment, digital imagery).

Primary Assessment Method Used:

- ☐ Visual Estimation (Qualitative)
- ☐ Digital Imagery (Drone/Satellite)
- ☐ Grid-Based Sampling
- ☐ Transect Method

Observer Distance from Canopy (meters)

Enter a number...

Describe any challenges or limitations encountered during visual assessment.

Write something...

If using digital imagery, what type of image was used?

- ☐ RGB
- ☐ NDVI
- ☐ Other (specify in LONG_TEXT)

If 'Other' image type selected above, please specify:

Write something...

Factors Considered During Visual Estimation (Select all that apply)

- ☐ Leaf Area
- ☐ Plant Height
- ☐ Light Penetration
- ☐ Plant Density
- ☐ Other (specify in LONG_TEXT)

If 'Other' selected above, please specify factors considered:

Write something...

Data Collection

Details the specific measurements and observations taken within the assessment areas.

Number of Observation Points per Area

Enter a number...

Observation Method Used

- ☐ Visual Assessment (Subjective)
- ☐ Digital Imagery (e.g., Drone, Satellite)

Distance from Ground Observer (if applicable)

Enter a number...

Observer Height (if applicable)

Enter a number...

Sky Visibility Score (if using visual assessment)

- ☐ 0 - No Sky Visible
- ☐ 1 - <10% Sky Visible
- ☐ 2 - 10-30% Sky Visible
- ☐ 3 - 31-60% Sky Visible
- ☐ 4 - 61-90% Sky Visible
- ☐ 5 - >90% Sky Visible

Canopy Height at Observation Point (m)

Enter a number...

Notes/Observations Regarding Canopy Structure or Variability

Write something...

Photo of Assessment Area (with scale if possible)

 Upload File

Data Analysis & Calculation

Outlines the process used to analyze collected data and calculate canopy closure percentages.

Number of Samples Analyzed

Enter a number...

Description of Calculation Method Used

Write something...

Average Canopy Closure (%)

Enter a number...

Standard Deviation of Canopy Closure (%)

Enter a number...

Unit of Measurement for Area (if applicable)

- ☐ Hectares
- ☐ Acres
- ☐ Square Meters
- ☐ Other (Specify in Long Text)

Justification for any adjustments or corrections made during calculation.

Write something...

Spreadsheet or Data Table of Raw Measurements

 Upload File

Results & Interpretation

Presents the calculated canopy closure percentages and interprets their implications.

Average Canopy Closure (%)

Enter a number...

Minimum Canopy Closure (%)

Enter a number...

Maximum Canopy Closure (%)

Enter a number...

Observed Variations in Canopy Closure

Write something...

Overall Canopy Closure Status

- ☐ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor

Potential Causes for Observed Canopy Closure Levels

Write something...

Implications for Crop Yield & Health

Write something...

Agreement with Expected Levels?

- ☐ Yes
- ☐ No
- ☐ Uncertain

Recommendations for Improvement

Write something...

Documentation & Reporting

Covers the recording of observations, creation of maps, and overall report generation.

Summary of Assessment Findings

Write something...

Report Creation Date

Enter date...

Report Creation Time

Overall Average Canopy Closure (%)

Enter a number...

Supporting Photos (aerial, ground level)



Upload File

Report Distribution Method (e.g., email, printed copy)

- ☐ Email
- ☐ Printed Copy
- ☐ Shared Online Drive

Report Recipient(s) Name(s)

Write something...

Recommendations for Improvement (if applicable)

Write something...

Assessor Signature