

# Screening and Storage Troubleshooting Checklist - Improve Material Balance

Screening and Storage | Improve Material Balance | Asset ID COMP-22-05-02

**Purpose:** This original printable troubleshooting checklist helps home composters, gardeners, schools and community projects work with screening and storage while pursuing one defined outcome: respond to visible wetness, dryness or structure rather than a rigid formula. Its method is to define the symptom, inspect recent changes, choose one correction and retest. Use the pages as a working record, not as a substitute for local accepted-material rules, current safety guidance and qualified horticultural or environmental advice where those are needed.

## Resource Map

The subject focus is to separate oversized material and keep mature compost protected until use. The six working areas below define the scope for this specific resource. Complete only the rows that matter to the present observation cycle, and date any observation that may change.

| # | Working area            | Current evidence                | Next check |
|---|-------------------------|---------------------------------|------------|
| 1 | Screen Size             | Known / estimated / not checked | _____      |
| 2 | Overs Fraction          | Known / estimated / not checked | _____      |
| 3 | Storage Cover           | Known / estimated / not checked | _____      |
| 4 | Air Exchange            | Known / estimated / not checked | _____      |
| 5 | Moisture During Storage | Known / estimated / not checked | _____      |
| 6 | Batch Label             | Known / estimated / not checked | _____      |

## Understanding and Improvement Starting Brief

- Locate: Which evidence separates overs fraction from storage cover in this case? Locate the part that most affects understanding or performance.
- Describe: How does air exchange change the interpretation of moisture during storage? Describe the present behaviour without vague labels.
- Explain: What boundary on batch label must be checked before relying on screen size? Explain the likeliest mechanism in bounded terms.
- Isolate: Which observation links storage cover to batch label, and what remains uncertain? Isolate one condition that can be changed fairly.
- Adjust: What alternative explanation could account for both moisture during storage and overs fraction? Adjust only that condition.
- Edition success means: explain the correction and its observed effect

## Troubleshooting Checklist

This format is designed to find the likeliest cause without changing several variables together. For screening and storage, apply the method in a deliberate sequence: define the symptom, inspect recent changes, choose one correction and retest. The edition target is improve material balance, so each entry should show what was noticed, what was tried and what changed.

| Working step                    | What to record                                                                                  | Evidence or source         | Status         |
|---------------------------------|-------------------------------------------------------------------------------------------------|----------------------------|----------------|
| Locate Overs Fraction           | Which evidence separates overs fraction from storage cover in this case?                        | Priority area / date       | Open / checked |
| Describe Storage Cover          | How does air exchange change the interpretation of moisture during storage?                     | Current pattern / date     | Open / checked |
| Explain Air Exchange            | What boundary on batch label must be checked before relying on screen size?                     | Working explanation / date | Open / checked |
| Isolate Moisture During Storage | Which observation links storage cover to batch label, and what remains uncertain?               | Test variable / date       | Open / checked |
| Adjust Batch Label              | What alternative explanation could account for both moisture during storage and overs fraction? | Controlled change / date   | Open / checked |
| Recheck Screen Size             | What next check on screen size would make the record about air exchange more useful?            | Improvement check / date   | Open / checked |

### Completion Standard

- Keep the work tied to screening and storage, not to a vague general intention.
- Apply this adjustment: classify recent additions and change one material group at a time
- What changed in the evidence after one controlled improvement?
- Expose this outcome risk if it appears: the adjustment changes the test.
- Use original notes and explanations; quote only when necessary, lawful and properly attributed.
- Ask a experienced composter, horticulture professional or local authority contact to challenge one material assumption where appropriate.
- Close with one decision and one follow-up rather than an unranked list of ideas.

### Working Note

Edition COMP-22-05-02 pairs troubleshooting checklist with the outcome 'Improve Material Balance'. That pairing is the boundary for this workbook: material that does not help that outcome belongs in a separate record.

## Quality Control x Understanding and Improvement Focused Practice Lab

This lab pairs a quality control method with a understanding and improvement outcome lens. Work through the six actions to turn the subject focus - separate oversized material and keep mature compost protected until use - into evidence for improve material balance. Preserve any gap that prevents a supported conclusion.

| # | Action                                 | Constraint                                                                                                                               | Record                          |
|---|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 1 | Define / Locate storage cover          | Which evidence separates overs fraction from storage cover in this case? Locate the part that most affects understanding or performance. | Standard / Priority area        |
| 2 | Inspect / Describe air exchange        | How does air exchange change the interpretation of moisture during storage? Describe the present behaviour without vague labels.         | Finding / Current pattern       |
| 3 | Flag / Explain moisture during storage | What boundary on batch label must be checked before relying on screen size? Explain the likeliest mechanism in bounded terms.            | Exception / Working explanation |
| 4 | Correct / Isolate batch label          | Which observation links storage cover to batch label, and what remains uncertain? Isolate one condition that can be changed fairly.      | Correction / Test variable      |
| 5 | Recheck / Adjust screen size           | What alternative explanation could account for both moisture during storage and overs fraction? Adjust only that condition.              | Recheck / Controlled change     |
| 6 | Release / Recheck overs fraction       | What next check on screen size would make the record about air exchange more useful? Recheck the original evidence after the adjustment. | Disposition / Improvement check |

### Common Failure Modes

- For storage cover, watch for the standard is undefined together with the priority area is misidentified.
- For air exchange, watch for inspection evidence is missing together with the description hides important detail.
- For moisture during storage, watch for the gap affects several areas together with the explanation outruns the evidence.
- For batch label, watch for the correction changes scope together with several causes are combined.
- For screen size, watch for the recheck uses different criteria together with the adjustment changes the test.

### Independent Review Question

Format question: Did the correction resolve the defined gap without creating another one? Outcome question: What changed in the evidence after one controlled improvement? Ask a experienced composter, horticulture professional or local authority contact where appropriate, then answer before the next observation cycle: \_\_\_\_\_

## Compost Observation Plan for Improve Material Balance

Use one defined observation cycle to test the outcome rather than attempting every possible task. This edition pairs quality control with understanding and improvement to pursue this objective: respond to visible wetness, dryness or structure rather than a rigid formula. Preserve the starting condition and both evidence trails.

| Plan field               | Entry                                                             |
|--------------------------|-------------------------------------------------------------------|
| Purpose                  | Improve Material Balance                                          |
| Starting condition       | _____                                                             |
| Chosen working area      | _____                                                             |
| Test variable            | classify recent additions and change one material group at a time |
| Evidence to capture      | _____                                                             |
| Stop or review condition | _____                                                             |

### Observation and Follow-up Cycle

| Stage        | Action                                                                                                                        | Evidence                        |
|--------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Start        | Which evidence separates overs fraction from storage cover in this case? Define the acceptance standard.                      | Standard / Priority area        |
| First action | How does air exchange change the interpretation of moisture during storage? Inspect against the same criteria.                | Finding / Current pattern       |
| Next check   | What boundary on batch label must be checked before relying on screen size? Classify the gap and its consequence.             | Exception / Working explanation |
| Follow-up    | Which observation links storage cover to batch label, and what remains uncertain? Apply one controlled correction.            | Correction / Test variable      |
| Trend review | What alternative explanation could account for both moisture during storage and overs fraction? Repeat the original check.    | Recheck / Controlled change     |
| Close-out    | What next check on screen size would make the record about air exchange more useful? Release, hold or escalate with a reason. | Disposition / Improvement check |

### Quality Check Log

| Quality Check | Condition      | Observation | Decision              |
|---------------|----------------|-------------|-----------------------|
| 1             | Same / changed | _____       | Keep / change / check |
| 2             | Same / changed | _____       | Keep / change / check |
| 3             | Same / changed | _____       | Keep / change / check |
| 4             | Same / changed | _____       | Keep / change / check |
| 5             | Same / changed | _____       | Keep / change / check |

## Before and After Quality Check - Understanding and Improvement Lens

This comparison tests screening and storage against improve material balance through two independent questions. Format: Did the correction resolve the defined gap without creating another one? Outcome: What changed in the evidence after one controlled improvement? Record material setting differences instead of averaging them away.

| Evidence area           | Baseline | Alternative | Interpretation prompt                                                                           |
|-------------------------|----------|-------------|-------------------------------------------------------------------------------------------------|
| Batch Label             | _____    | _____       | Which evidence separates overs fraction from storage cover in this case?                        |
| Screen Size             | _____    | _____       | How does air exchange change the interpretation of moisture during storage?                     |
| Overs Fraction          | _____    | _____       | What boundary on batch label must be checked before relying on screen size?                     |
| Storage Cover           | _____    | _____       | Which observation links storage cover to batch label, and what remains uncertain?               |
| Air Exchange            | _____    | _____       | What alternative explanation could account for both moisture during storage and overs fraction? |
| Moisture During Storage | _____    | _____       | What next check on screen size would make the record about air exchange more useful?            |

### Format Decision Test

| Field                          | Record                                                                   |
|--------------------------------|--------------------------------------------------------------------------|
| Review question                | Did the correction resolve the defined gap without creating another one? |
| Outcome question               | What changed in the evidence after one controlled improvement?           |
| Acceptance lens                | explain the correction and its observed effect                           |
| Conditions held steady         | _____                                                                    |
| Evidence supporting the choice | _____                                                                    |
| Evidence against the choice    | _____                                                                    |

### Quality Control Confidence Check

- Priority area: what was actually seen, heard, measured or read?
- Format evidence: which record best demonstrates gaps classified?
- Outcome evidence: which record best demonstrates controlled changes completed?
- Challenge: could the recheck uses a new standard explain the result?
- Subject boundary: what does this comparison leave unresolved about overs fraction?

## Quality Control x Understanding and Improvement Scenario Cards

Use these paired scenarios to rehearse judgement for improve material balance. Each card joins a quality control failure mode to an outcome-specific risk. State what remains open and which evidence named in the final column should be collected next.

| # | Situation                                              | Review question                                                                                 | Decision            |
|---|--------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------|
| 1 | Overs Fraction: the gap affects several areas.         | Which evidence separates overs fraction from storage cover in this case?                        | Priority area       |
| 2 | Storage Cover: the correction changes scope.           | How does air exchange change the interpretation of moisture during storage?                     | Current pattern     |
| 3 | Air Exchange: the recheck uses different criteria.     | What boundary on batch label must be checked before relying on screen size?                     | Working explanation |
| 4 | Moisture During Storage: release authority is unclear. | Which observation links storage cover to batch label, and what remains uncertain?               | Test variable       |
| 5 | Batch Label: the standard is undefined.                | What alternative explanation could account for both moisture during storage and overs fraction? | Controlled change   |
| 6 | Screen Size: inspection evidence is missing.           | What next check on screen size would make the record about air exchange more useful?            | Improvement check   |

### Decision Record

| Field                  | Notes                                                          |
|------------------------|----------------------------------------------------------------|
| Chosen format scenario | _____                                                          |
| Outcome lens           | What changed in the evidence after one controlled improvement? |
| Evidence available     | _____                                                          |
| Evidence missing       | _____                                                          |
| Controlled next step   | _____                                                          |
| Person / review date   | _____                                                          |

## Eight Quality Control and Understanding and Improvement Evidence Tracker

Track improve material balance across eight observation checks using the quality control method and the understanding and improvement outcome lens. Keep conditions visible and use this review question: What changed in the evidence after one controlled improvement?

| # | Focus                   | Condition | Result | Next action |
|---|-------------------------|-----------|--------|-------------|
| 1 | Screen Size             | _____     | _____  | _____       |
| 2 | Overs Fraction          | _____     | _____  | _____       |
| 3 | Storage Cover           | _____     | _____  | _____       |
| 4 | Air Exchange            | _____     | _____  | _____       |
| 5 | Moisture During Storage | _____     | _____  | _____       |
| 6 | Batch Label             | _____     | _____  | _____       |
| 7 | Screen Size             | _____     | _____  | _____       |
| 8 | Overs Fraction          | _____     | _____  | _____       |

### Quality Control Evidence Dashboard

| Measure                                                                 | Baseline | Current | Evidence location |
|-------------------------------------------------------------------------|----------|---------|-------------------|
| Screen Size: Standards Defined / Priority Areas Located                 | _____    | _____   | _____             |
| Overs Fraction: Items Inspected / Patterns Described                    | _____    | _____   | _____             |
| Storage Cover: Gaps Classified / Explanations Bounded                   | _____    | _____   | _____             |
| Air Exchange: Corrections Completed / Variables Isolated                | _____    | _____   | _____             |
| Moisture During Storage: Rechecks Passed / Controlled Changes Completed | _____    | _____   | _____             |
| Batch Label: Holds Explained / Rechecks Compared                        | _____    | _____   | _____             |

### Interpret the Trend

- I separated description from explanation before making a change.
- I compared the adjustment with the same evidence used at the start.
- Keep the method only when the evidence for improve material balance improves without hiding the recheck uses a new standard.
- What boundary on batch label must be checked before relying on screen size?
- Use a experienced composter, horticulture professional or local authority contact when the evidence crosses a safety, rights, health or authority boundary.

## Quality Control x Understanding and Improvement Next Step Plan

Finish by turning the paired format and outcome record into one owned action. For this troubleshooting checklist, the intended result was improve material balance; the outcome test is: What changed in the evidence after one controlled improvement? The close-out standard remains: explain the correction and its observed effect.

| Close-out field      | Record                             |
|----------------------|------------------------------------|
| Most useful evidence | _____                              |
| Important limitation | _____                              |
| Decision             | Keep / adapt / pause / seek review |
| Next action          | _____                              |
| Owner and date       | _____                              |
| Evidence location    | _____                              |

### Completion Review

- Subject check: Which evidence separates overs fraction from storage cover in this case?
- Subject check: How does air exchange change the interpretation of moisture during storage?
- Format check: I used the same acceptance criteria before and after correction.
- Outcome check: I separated description from explanation before making a change.
- I recorded weather, recent inputs and the time between observation and follow-up.
- I made no sanitation, pathogen-destruction or crop-safety claim from temperature alone.

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