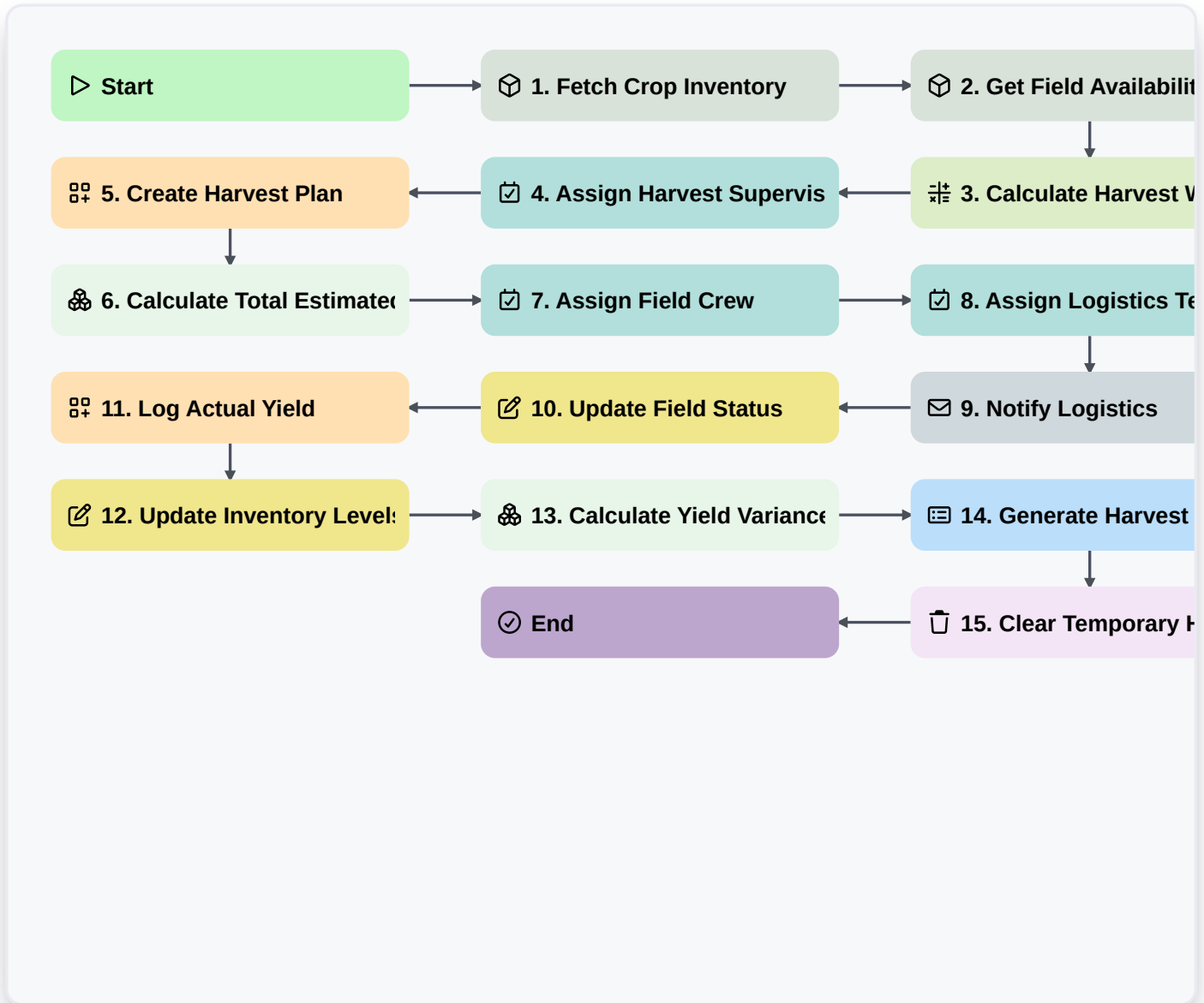


Harvest Planning And Execution Process



▷ Start

Start of the Workflow/Process.

📦 1. Fetch Crop Inventory

Retrieve existing crop types and maturity dates from the Crop Data Model to identify which crops are ready for harvest.

📦 2. Get Field Availability

Retrieve field data to check which plots are accessible and ready for harvest execution.

📅 3. Calculate Harvest Window

Calculate the start and end dates of the harvest window based on maturity dates and weather forecasts.

📅 4. Assign Harvest Supervisor

Create a task for the Farm Manager to review and approve the proposed harvest plan.

📅 5. Create Harvest Plan

Create a new entry in the Harvest Plan data model containing the approved schedule and allocated resources.

📊 6. Calculate Total Estimated Yield

Aggregate the estimated weight/volume from all planned harvest entries to determine total expected output.



7. Assign Field Crew

Create tasks for Field Leads containing the specific checklist of plots to be harvested.

8. Assign Logistics Team

Create tasks for the transport team to prepare trucks and containers based on the harvest volume.

9. Notify Logistics

Send an email to the transport department with the finalized harvest schedule and volume estimates.

10. Update Field Status

Update the 'Status' field in the Field Data Model to 'In Harvest' once the execution begins.

11. Log Actual Yield

Create a new entry in the Harvest Results data model to record the actual weight harvested vs. the estimate.

12. Update Inventory Levels

Update the Warehouse/Storage data model to reflect the incoming quantity of harvested crops.

13. Calculate Yield Variance

Aggregate estimated vs. actual yields to calculate the percentage of variance for the harvest season.

14. Generate Harvest Post-Mortem Report

Create a final report summarizing total yield, cost, and efficiency for the completed harvest cycle.

15. Clear Temporary Harvest Schedule

Delete the temporary planning entries once the final harvest plan has been converted to an official record.

End

End of the Workflow/Process.