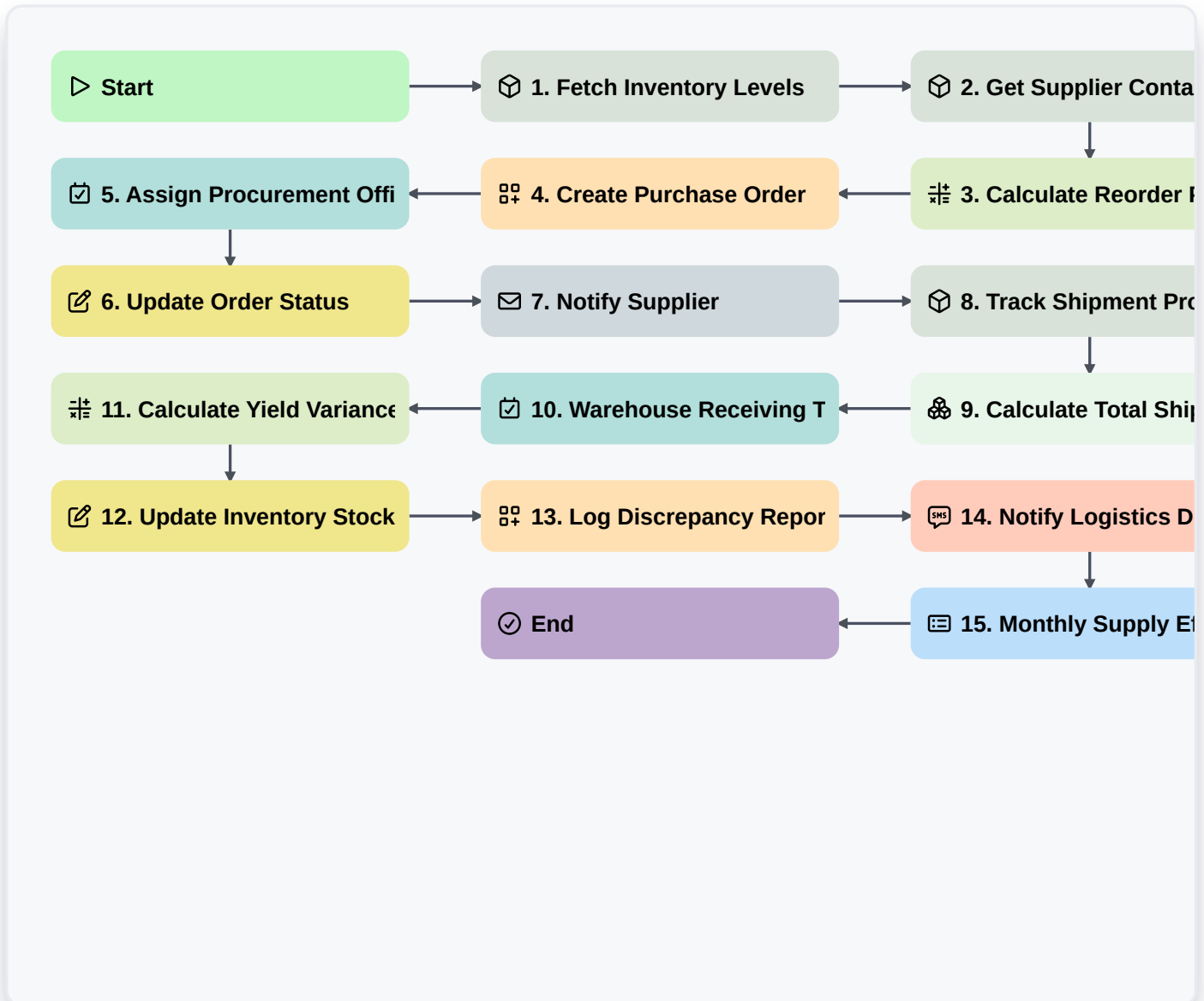


# Farm Supply Chain And Logistics Management Process



## Start

Start of the Workflow/Process.

## 1. Fetch Inventory Levels

Retrieve current stock levels for fertilizers, seeds, and pesticides from the Inventory Data Model.

## 2. Get Supplier Contact Info

Retrieve contact details and lead times from the Supplier Data Model.

## 3. Calculate Reorder Point

Calculate the threshold for new orders by comparing current stock vs. safety stock levels.

## 4. Create Purchase Order

Create a new entry in the Purchase Orders Data Model for the required supplies.

## 5. Assign Procurement Officer

Create a task for the Procurement Manager to review and approve the new Purchase Order.



## **6. Update Order Status**

Update the status of the Purchase Order to 'Ordered' once approval is confirmed.

## **7. Notify Supplier**

Send an email to the supplier with the Purchase Order details and delivery requirements.

## **8. Track Shipment Progress**

Retrieve logistics and transit data from the Shipment Tracking Data Model.

## **9. Calculate Total Shipment Value**

Sum the cost of all items within a specific shipment entry to calculate total landed cost.

## **10. Warehouse Receiving Task**

Create a task for the Warehouse Supervisor to perform physical inspection upon delivery.

## **11. Calculate Yield Variance**

Calculate the difference between expected supply quantity and actual received quantity.

## **12. Update Inventory Stock**

Increment the quantity in the Inventory Data Model based on the received shipment.

## **13. Log Discrepancy Report**

Create an entry in the Discrepancy Data Model if the received amount does not match the PO.

## **14. Notify Logistics Driver**

Send an SMS to the driver with the pickup location and delivery window.

## **15. Monthly Supply Efficiency Report**

Generate a monthly report summarizing procurement costs, delays, and supplier performance.

## **End**

End of the Workflow/Process.