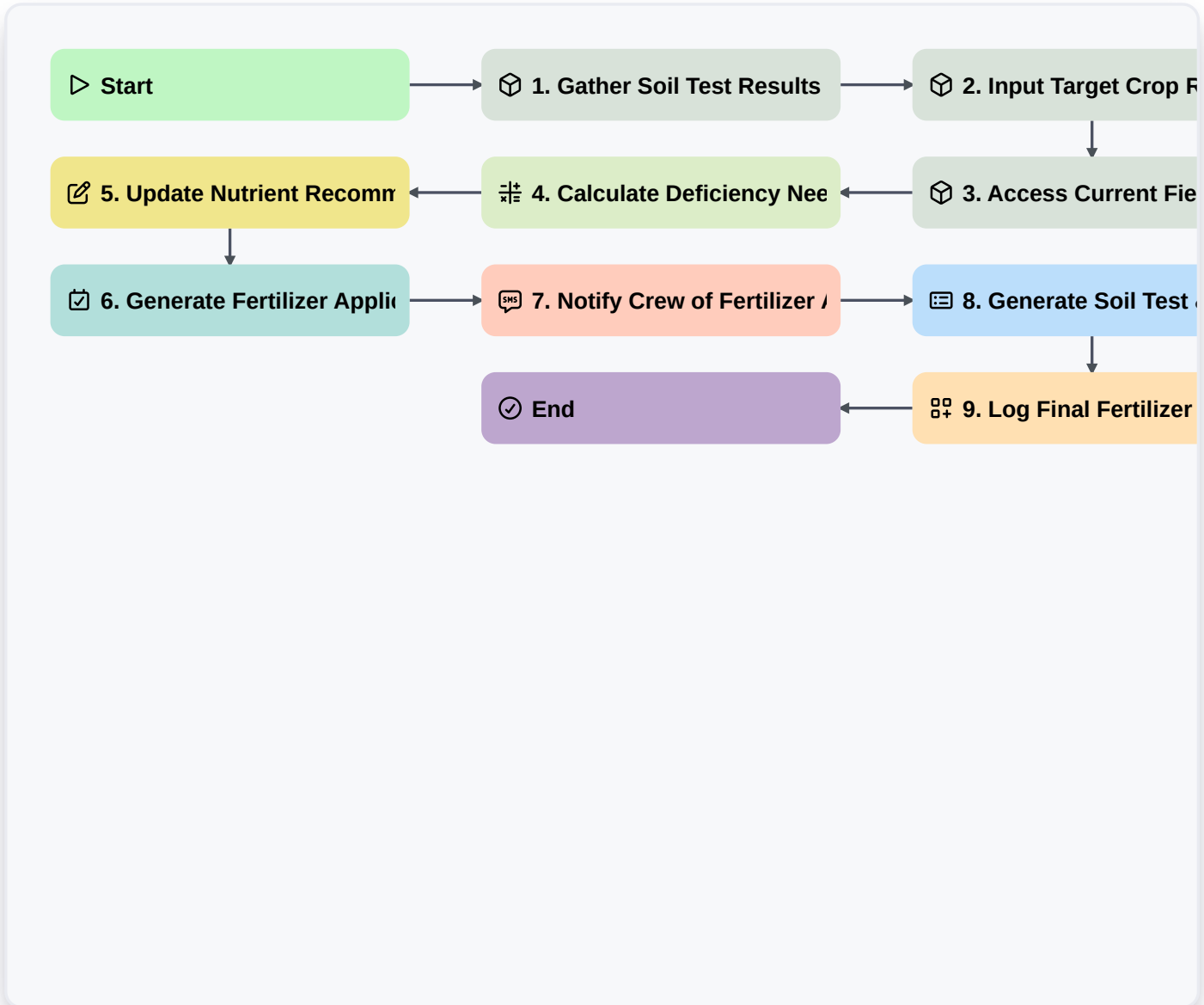


Nutrient Management Workflow: Soil Testing And Fertilizer Application For Agriculture



▷ **Start**

Start of the Workflow/Process.

 **1. Gather Soil Test Results**

Retrieve detailed soil nutrient data from the database.

 **2. Input Target Crop Requirements**

Access ideal nutrient levels and application rates for the specific crop being grown.

 **3. Access Current Field Soil Sample Data**

Fetch recent soil test readings (pH, Organic Matter, N-P-K levels).

 **4. Calculate Deficiency Needs**

Determine necessary nutrient supplements based on soil test vs. target levels.

 **5. Update Nutrient Recommendation**

Store the calculated, actionable fertilizer recommendation in the farm record.

 **6. Generate Fertilizer Application Task**

Create actionable task for field crew with required product, quantity, and location.

 **7. Notify Crew of Fertilizer Application**

Send SMS alert to field crew leader with task details and timing.

 **8. Generate Soil Test & Fertilizer Recommendation Report**

Compile all data into a comprehensive report for farm owner/manager.

 **9. Log Final Fertilizer Application Record**

Create a permanent record of applied nutrients and date for compliance tracking.

 **End**

Start of the Workflow/Process.