



# Crop Rotation Plan Development Checklist

## Goal Setting & Farm Assessment

Define objectives for the crop rotation (e.g., pest/disease control, soil health, yield improvement) and assess current farm conditions.

### Describe Overall Farm Goals

Write something...

### Current Average Yield (per acre/hectare)

Enter a number...

### Primary Farm Focus (Select one)

- ☐ Profit Maximization
- ☐ Soil Health Improvement
- ☐ Sustainability/Environmental Stewardship
- ☐ Organic Certification

### What are your biggest challenges currently? (Select all that apply)

- ☐ Pest Infestations
- ☐ Disease Pressure
- ☐ Soil Erosion
- ☐ Nutrient Deficiencies
- ☐ Weed Pressure
- ☐ Water Scarcity
- ☐ Market Fluctuations

### Describe Current Crop Rotation (if any)

Write something...

### Farm Size (acres/hectares)

Enter a number...

### Date of Last Soil Test

Enter date...

## Soil Analysis & Understanding

Analyze soil types, nutrient levels, pH, organic matter content, and drainage characteristics across the farm.

### Soil pH

Enter a number...

### Organic Matter (%)

Enter a number...

### Nitrogen (lbs/acre)

Enter a number...

### Phosphorus (lbs/acre)

Enter a number...

### Potassium (lbs/acre)

Enter a number...

### Soil Texture (Predominant)

- ☐ Sandy
- ☐ Loamy
- ☐ Clayey
- ☐ Silty
- ☐ Other - Specify

### Notes on Soil Drainage

Write something...

## Soil Test Report (PDF)

 Upload File

# Crop Selection & Compatibility

Identify suitable crops for the farm's climate, soil, and market demands, and assess their compatibility within a rotation.

### Identify Desired Crop Groups (e.g., Legumes, Cereals, Root Crops)

- ☐ Legumes (Beans, Peas, Lentils)
- ☐ Cereals (Corn, Wheat, Barley)
- ☐ Root Crops (Potatoes, Carrots, Beets)
- ☐ Brassicas (Cabbage, Broccoli, Cauliflower)
- ☐ Cover Crops (Rye, Oats, Clover)
- ☐ Forage Crops (Alfalfa, Grasses)

### Primary Market/Use for Crops (influences selection)

- ☐ Direct Sale (Farmers Market)
- ☐ Wholesale to Distributors
- ☐ Processing (e.g., Canners)
- ☐ Livestock Feed
- ☐ On-Farm Consumption

### List potential crops to include in the rotation (consider climate, soil, and market needs)

Write something...

**Which of these crops are known to be incompatible with each other (to avoid in the same field or sequence)?**

- ☐ Brassicas and Legumes
- ☐ Corn and Wheat
- ☐ Potatoes and Tomatoes
- ☐ Onions and Legumes
- ☐ Carrots and Dill

**Note any specific crop limitations due to soil type or drainage.**

Write something...

**What is the farm's tolerance for risk with new crop introductions?**

- ☐ Low (Prioritize familiar crops)
- ☐ Moderate (Willing to try some new crops)
- ☐ High (Open to significant crop experimentation)

## Nutrient Management & Balance

Plan for nutrient cycling, cover cropping, and fertilization to maintain soil fertility and minimize nutrient loss.

**Target Organic Matter Increase (%),**

Enter a number...

### Primary Cover Crop Strategy:

- ☐ Legumes (e.g., clover, vetch)
- ☐ Grasses (e.g., rye, oats)
- ☐ Brassicas (e.g., radish, mustard)
- ☐ Mixed Cover Crop Blend

### Description of planned cover crop species and their expected benefits:

Write something...

### Planned Nitrogen Contribution from Cover Crops (lbs/acre):

Enter a number...

### Soil Amendments Planned (select all that apply):

- ☐ Compost
- ☐ Manure
- ☐ Green Manure
- ☐ Rock Phosphate
- ☐ Lime

### Application Rate of Compost/Manure (lbs/acre):

Enter a number...

### Date of Next Soil Test:

Enter date...

# Pest & Disease Management

Design the rotation to disrupt pest and disease cycles, reducing reliance on chemical controls.

## Identify Key Pests & Diseases

- ☐ Aphids
- ☐ Nematodes
- ☐ Fungal Diseases (e.g., Rust, Powdery Mildew)
- ☐ Bacterial Diseases
- ☐ Viral Diseases
- ☐ Other (Specify in Long Text)

## Describe History of Pest/Disease Issues

Write something...

## Crop Rotation Strategies for Pest/Disease Control

- ☐ Include Non-Host Crops
- ☐ Break Weed Cycles (Weeds Often Host Pests/Diseases)
- ☐ Increase Soil Organic Matter
- ☐ Utilize Cover Crops (e.g., Mustard for Nematodes)
- ☐ Crop Diversity

## Rotation Cycle Length (Years)

Enter a number...

### Cover Crop Selection (for Pest/Disease Suppression)

- ☐ Mustard
- ☐ Phacelia
- ☐ Buckwheat
- ☐ Clover
- ☐ Ryegrass
- ☐ No Cover Crop

### Specific Rotation Details for Pest/Disease Management

Write something...

## Weed Control Strategies

Integrate crop rotation with weed management practices, considering planting dates, cover crops, and tillage methods.

### Primary Weed Control Method in Rotation?

- ☐ Cover Cropping
- ☐ Tillage (Conventional)
- ☐ Reduced/No-Till
- ☐ Herbicide Application
- ☐ Manual Weeding

### Which cover crops will be utilized for weed suppression?

- ☐ Rye
- ☐ Oats
- ☐ Buckwheat
- ☐ Hairy Vetch
- ☐ Crimson Clover
- ☐ Sudan Grass

### Planned cover crop seeding rate (lbs/acre)

Enter a number...

### Date of cover crop planting

Enter date...

### Describe any anticipated challenges with weed control in specific rotation phases.

Write something...

### Tillage Method for Weed Control (If Applicable)

- ☐ Conventional
- ☐ Reduced
- ☐ No-Till
- ☐ Strip-Till

**Describe how tillage (if any) will be timed to maximize weed control effectiveness.**

Write something...

## Rotation Sequence & Timing

Determine the sequence and duration of crops within the rotation, considering planting and harvest timing.

**Rotation Length (Years)**

Enter a number...

**Crop Sequencing (e.g., Year 1, Year 2, Year 2...)**

- ☐ Crop A
- ☐ Crop B
- ☐ Crop C
- ☐ Cover Crop Mix

**Planting Date - Crop A**

Enter date...

**Planting Date - Crop B**

Enter date...

### Crop Cycle Length (Days/Weeks)

Enter a number...

### Planting Method (for each crop)

- ☐ Direct Seeding
- ☐ Transplanting
- ☐ Cover Crop Broadcast

### Expected Harvest Date - Crop A

Enter date...

### Notes on Timing Adjustments (e.g., weather considerations)

Write something...

## Infrastructure & Equipment Considerations

Assess the need for infrastructure or equipment adjustments to support the crop rotation plan.

### Tractor Size/Power Requirement Adjustment?

Enter a number...

### Specialized Planting Equipment Needed?

- ☐ Yes - Specify
- ☐ No

### Detailed description of any necessary equipment modifications.

Write something...

### Irrigation System Adaptations Required?

☐ Yes - Specify

☐ No

### Estimated Equipment Investment Cost (\$)

Enter a number...

### Considerations for existing field layout or access roads.

Write something...

## Monitoring & Evaluation

Establish a system to monitor the crop rotation's effectiveness and make adjustments as needed.

### Yield per Crop (Baseline Year)

Enter a number...

### Yield per Crop (Current Year)

Enter a number...

### Overall Crop Rotation Performance (Qualitative)

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

### Observations on Pest/Disease Pressure

Write something...

### Observations on Weed Pressure

Write something...

### Date of Last Rotation Review

Enter date...

### Soil Organic Matter (Before Rotation) (%),

Enter a number...

### Soil Organic Matter (After Rotation) (%),

Enter a number...