

Soil Analysis Report

Comprehensive Soil Health Assessment

Report ID:	ANALYSIS-1749657214446
Analysis Date:	June 11, 2025
Location:	Field B, South Section - Multi-Crop Analysis
Soil Type:	SANDY

Soil Health Overview

Overall Health Score: 10.0/10

Excellent soil health. Your soil is in optimal condition for plant growth.

Nutrient Analysis

pH Level	6.2
Nitrogen (ppm)	38.0
Phosphorus (ppm)	28.0
Potassium (ppm)	42.0
Organic Matter (%)	3.2
Moisture (%)	32.0

Micronutrient Analysis

Iron (ppm)	4.2
Zinc (ppm)	2.8
Copper (ppm)	0.9
Manganese (ppm)	3.5

Nutrient Scores

Iron	10.0/10
Copper	10.0/10
Zinc	10.0/10
Manganese	10.0/10

Corn (Suitability Score: 8.3/10)

Advantages:

Good nitrogen levels for corn growth

Challenges:

! Phosphorus levels may limit root development

Recommended Variety: Select based on local climate

Best Planting Season: Spring

Wheat (Suitability Score: 8.3/10)

Advantages:

Suitable pH range for wheat

Recommended Variety: Winter wheat varieties

Best Planting Season: Fall

Soybeans (Suitability Score: 8.3/10)

Recommended Variety: null

Best Planting Season: null

Cotton (Suitability Score: 8.3/10)

Recommended Variety: null

Best Planting Season: null

Rice (Suitability Score: 8.3/10)

Recommended Variety: null

Best Planting Season: null

Seasonal Recommendations

SPRING	Prepare soil for planting. Apply balanced fertilizer and test soil temperature.
WINTER	Protect soil from erosion and plan for spring planting.
SUMMER	Monitor soil moisture and apply mulch to conserve water.
AUTUMN	Add organic matter and prepare soil for winter.

Nitrogen-rich Fertilizer

Amount: 1-2 lbs per 1000 sq ft

Frequency: Every 4-6 weeks during growing season

Benefits: Promotes leaf growth and green color

Notes: Water thoroughly after application to prevent burning

Phosphate Fertilizer

Amount: 2-3 lbs per 1000 sq ft

Frequency: Every 8-10 weeks

Benefits: Promotes root development and flowering

Notes: Work into soil rather than surface application for best results

Organic Mulch

Amount: 3-4 inch layer

Frequency: Twice per year

Benefits: Improves water retention in sandy soils

Notes: Reapply as it breaks down

Balanced Fertilizer (10-10-10)

Amount: 1 lb per 1000 sq ft

Frequency: Every 8-10 weeks during growing season

Benefits: Maintains overall soil fertility

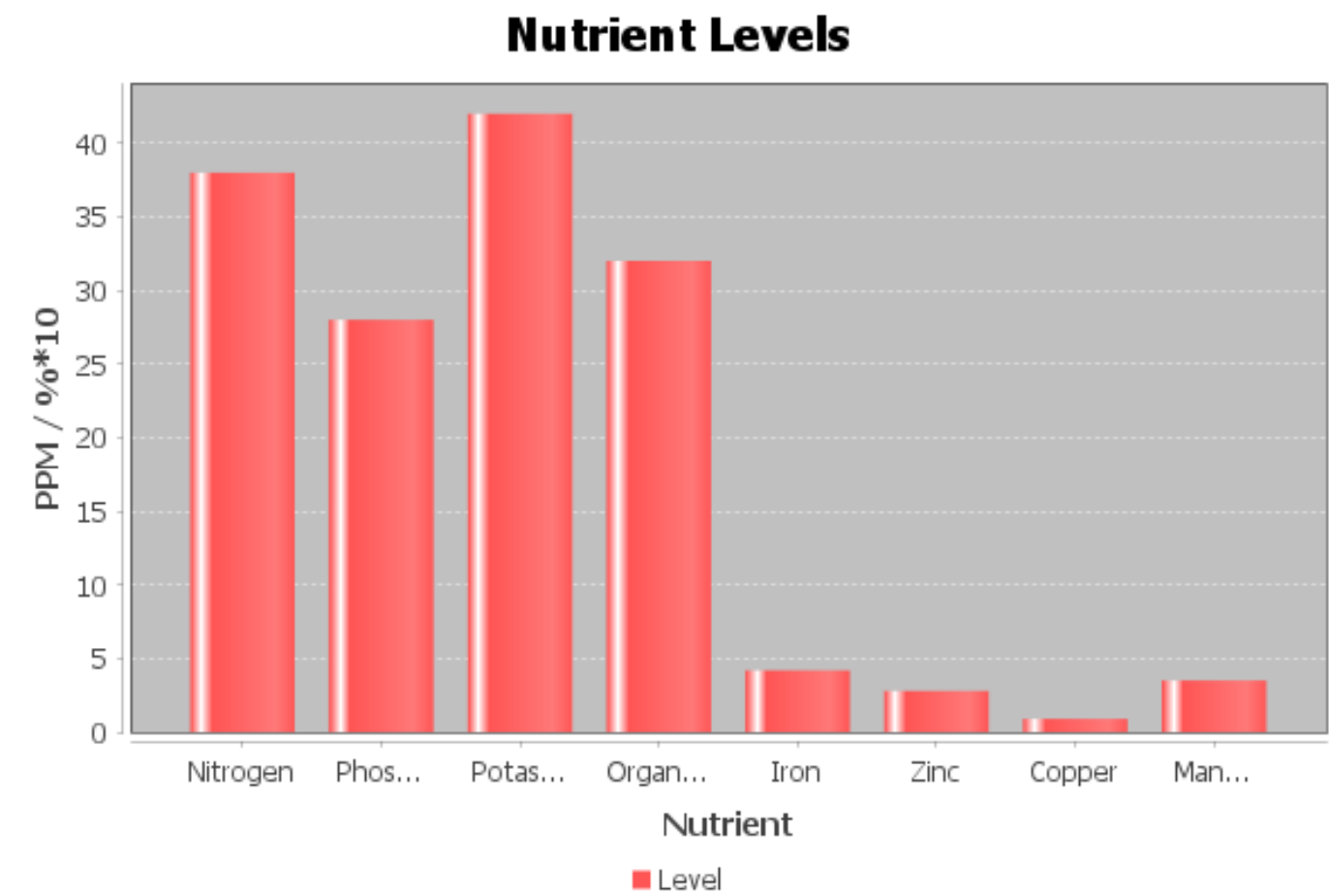
Notes: Reduce frequency for native plants

Areas for Improvement

- Nitrogen levels are low
- Phosphorus levels are low

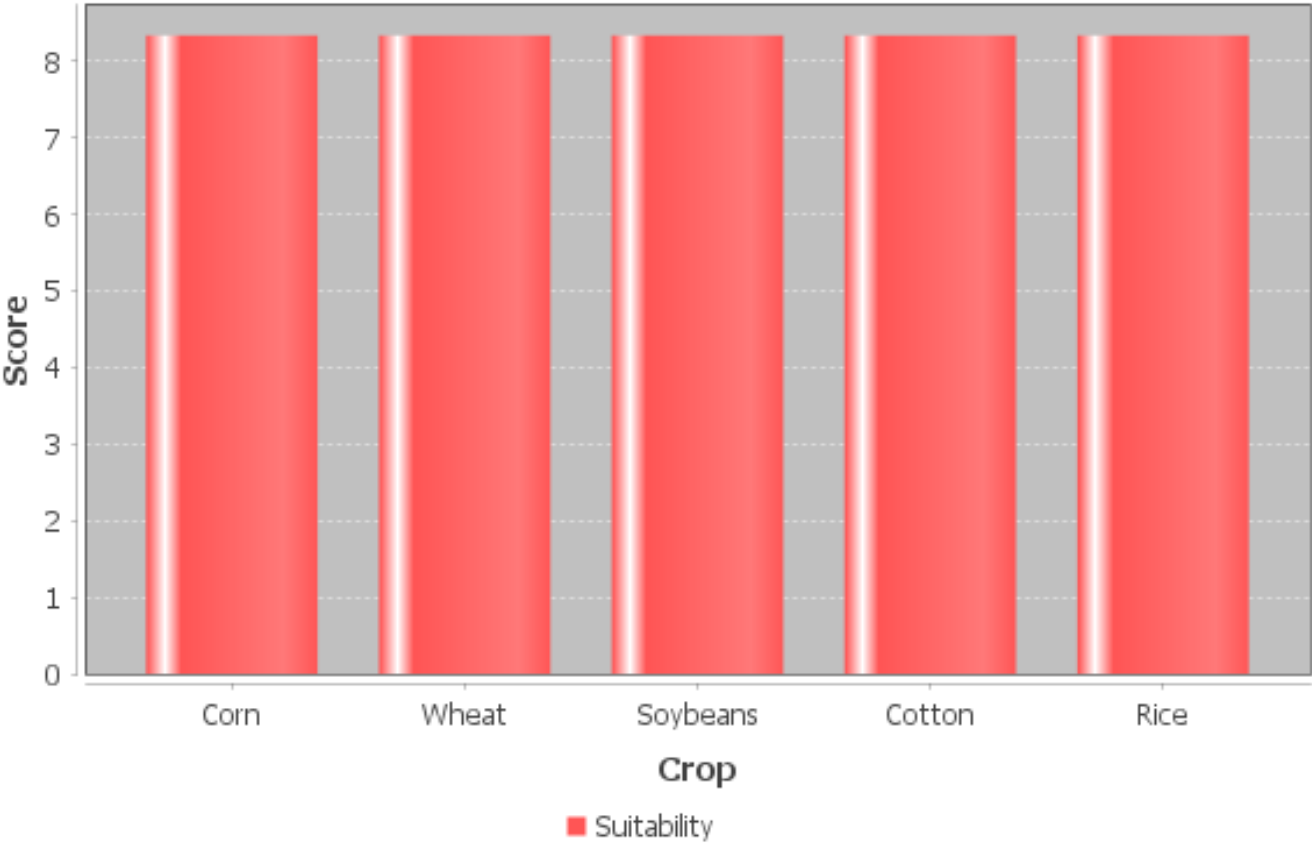
Visual Analysis

Nutrient Distribution



Crop Suitability

Crop Suitability Scores



Health Score Distribution

Soil Health Score

