

FLAHA PA

FLAHASOIL

## SOIL ANALYSIS REPORT

Professional Water Characteristics Analysis

### GENERATED FOR:

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### REPORT INFORMATION:

**Date:** 02/06/2025

**Report ID:** FLH-Analysis116-02062025

**Plan:** PROFESSIONAL

Based on Saxton & Rawls (2006) Methodology  
Professional Soil Water Characteristics Analysis

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# 1. SOIL PROPERTIES

## COMPOSITION ANALYSIS

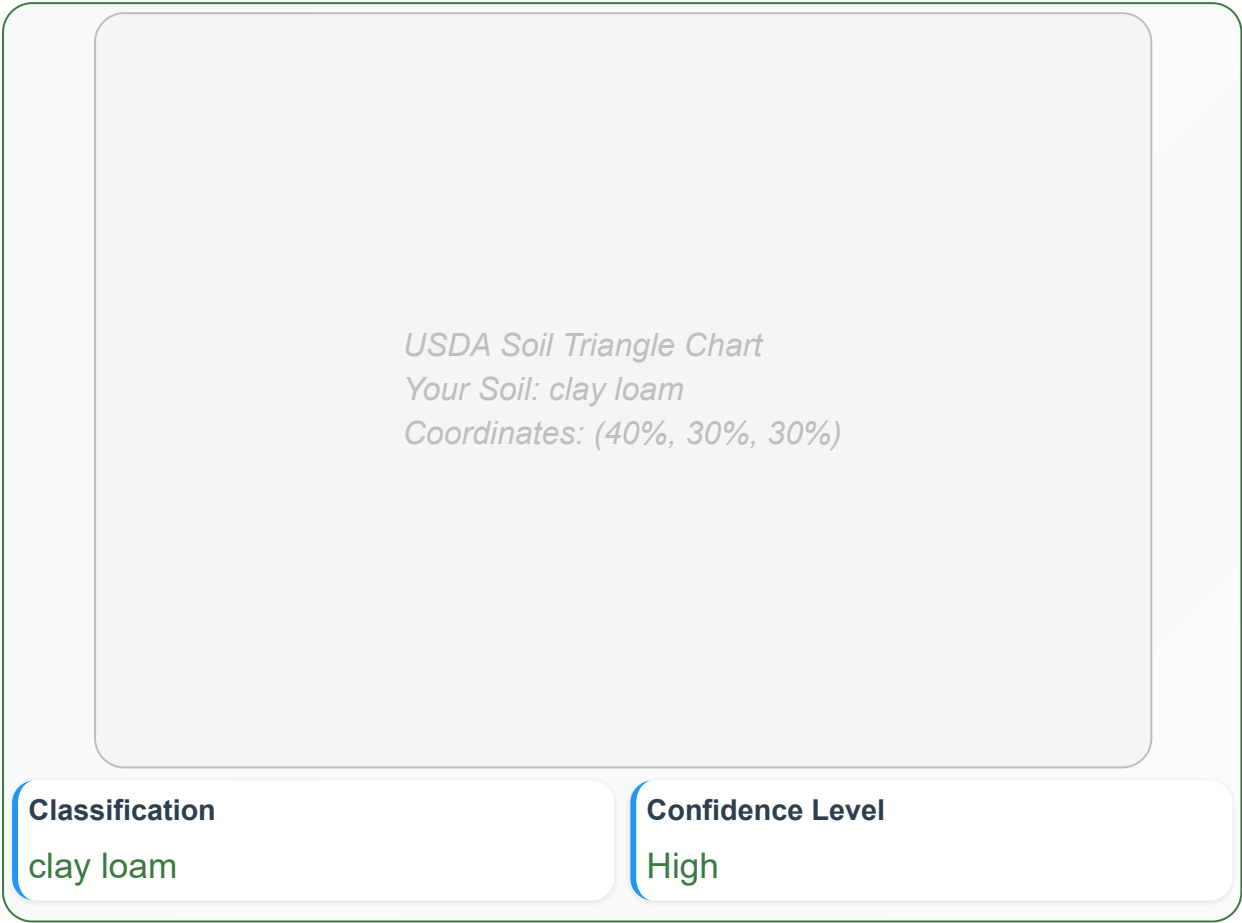
<b>Sand Content</b> 40%	<b>Clay Content</b> 30%
<b>Silt Content</b> 30%	<b>Organic Matter</b> 2.8%

## BULK DENSITY ANALYSIS

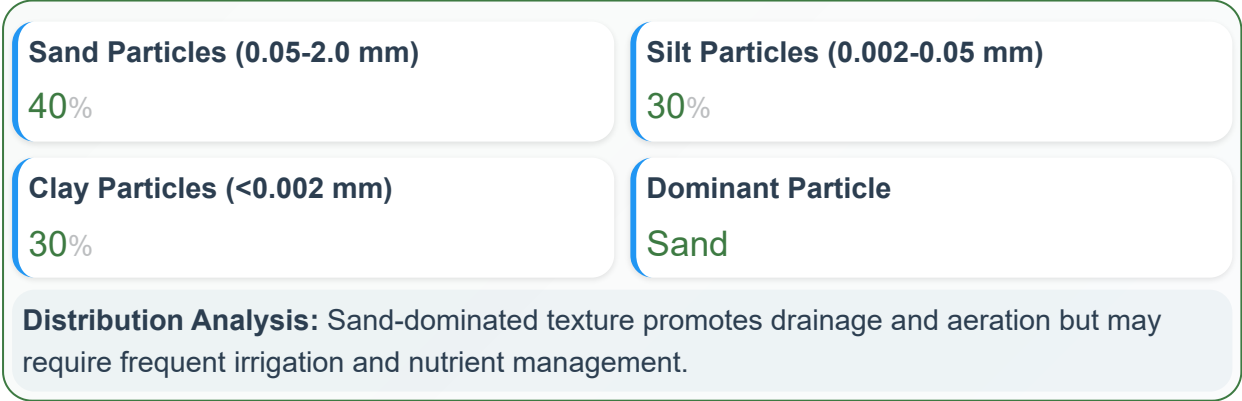
<b>Bulk Density</b> 1.3 g/cm <sup>3</sup>	<b>Porosity</b> 0.51%
<b>Void Ratio</b> 0.01	<b>Texture Class</b> clay loam
<b>Analysis:</b> Moderate bulk density - typical for most agricultural soils.	

## 2. SOIL TEXTURE CLASSIFICATION

### USDA TRIANGLE CLASSIFICATION



### PARTICLE SIZE DISTRIBUTION



### 3. SOIL ANALYSIS RESULTS

#### WATER CHARACTERISTICS

<b>Field Capacity</b> 0.32%	<b>Wilting Point</b> 0.18%
<b>Plant Available Water</b> 0.14%	<b>Saturation</b> 0.45%

#### HYDRAULIC PROPERTIES

<b>Saturated Conductivity</b> 2.5 mm/hr	<b>Infiltration Rate</b> 2.5 mm/hr
<b>Drainage Class</b> Slow	<b>Permeability</b> Low
<b>Hydraulic Analysis:</b> Low hydraulic conductivity may cause waterlogging issues and requires drainage management.	

#### QUALITY INDICATORS

<b>Overall Quality Score</b> 75/100	<b>Water Retention</b> Good
<b>Nutrient Holding</b> Good	<b>Agricultural Suitability</b> Good
<b>Quality Assessment:</b> Good soil quality suitable for most crops. clay loam texture offers favorable growing conditions with minor limitations.	

## 4. CROP RECOMMENDATIONS

### SUITABLE CROPS

**Loamy Soils:** Ideal balanced soil for most agricultural crops.

**Recommended:** Corn, Tomatoes, Most vegetables, Fruit trees

**Management:** Standard practices, maintain organic matter, balanced fertilization.

# FLAHA AGRI TECH

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