

FLAHA PA

FLAHASOIL

SOIL ANALYSIS REPORT

Professional Water Characteristics Analysis

GENERATED FOR:

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REPORT INFORMATION:

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Report ID: FLH-Analysis56-02062025

Plan: PROFESSIONAL

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

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1. SOIL PROPERTIES

COMPOSITION ANALYSIS

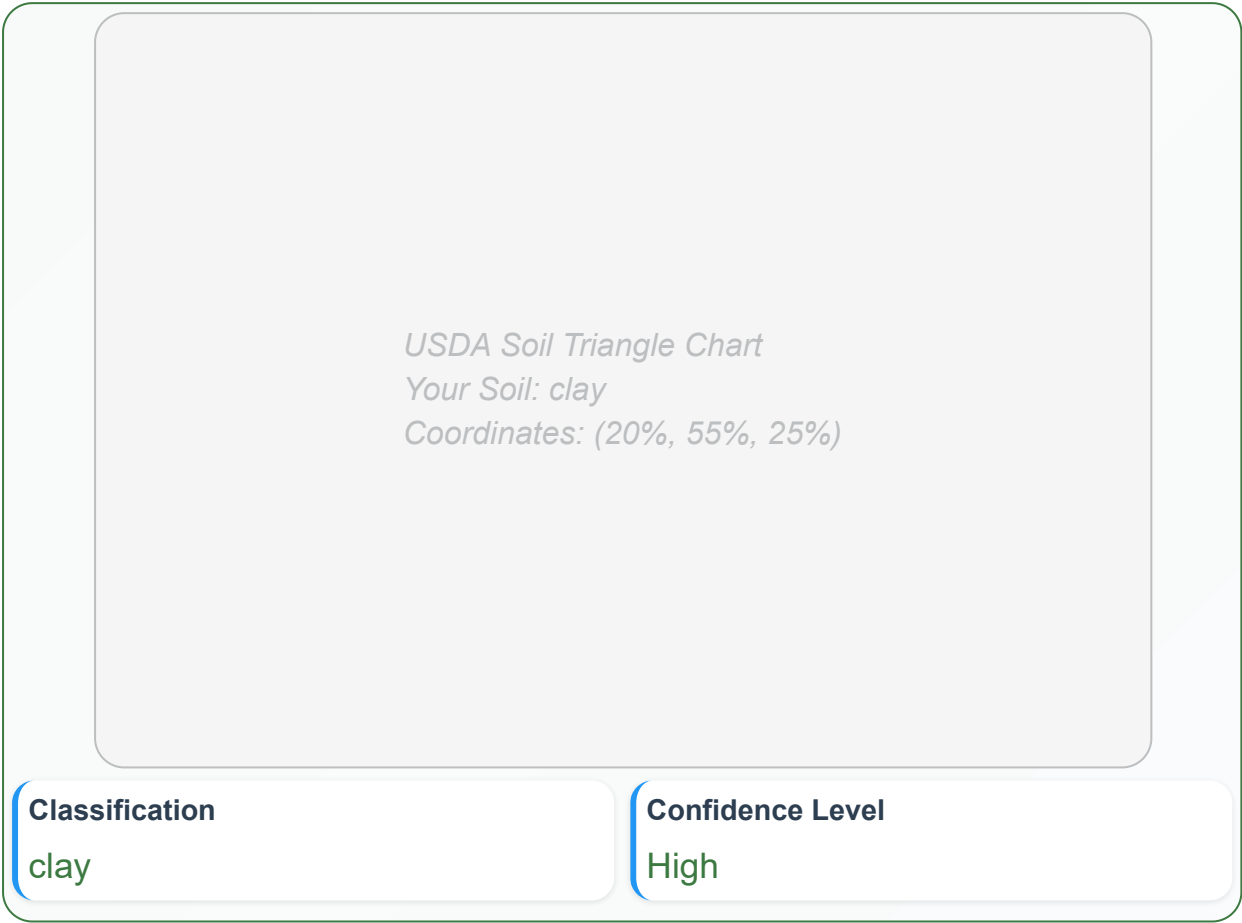
Sand Content 20%	Clay Content 55%
Silt Content 25%	Organic Matter 4.2%

BULK DENSITY ANALYSIS

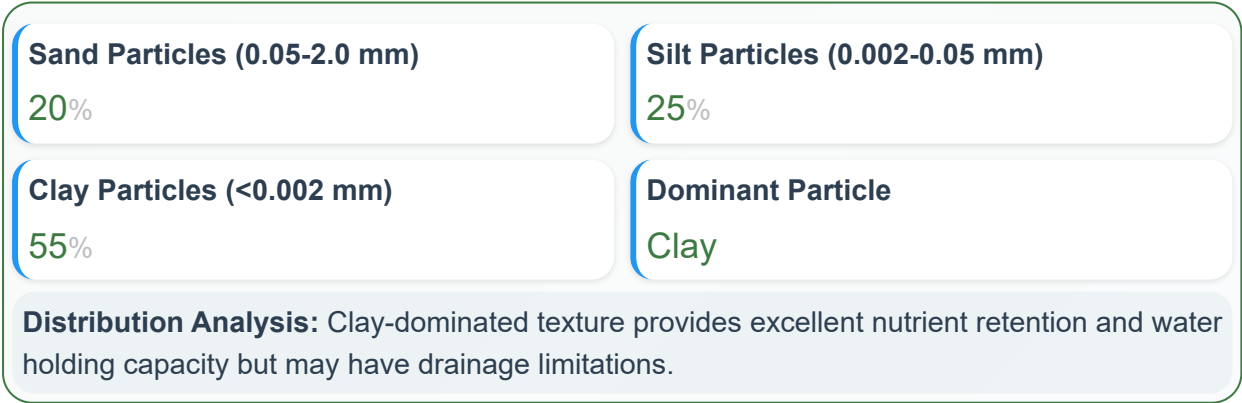
Bulk Density 1.2 g/cm ³	Porosity 0.55%
Void Ratio 0.01	Texture Class clay
Analysis: Low to moderate bulk density - good soil structure with adequate pore space.	

2. SOIL TEXTURE CLASSIFICATION

USDA TRIANGLE CLASSIFICATION



PARTICLE SIZE DISTRIBUTION



3. SOIL ANALYSIS RESULTS

WATER CHARACTERISTICS

Field Capacity 0.42%	Wilting Point 0.25%
Plant Available Water 0.17%	Saturation 0.52%

HYDRAULIC PROPERTIES

Saturated Conductivity 1.2 mm/hr	Infiltration Rate 1.2 mm/hr
Drainage Class Slow	Permeability Low
Hydraulic Analysis: Low hydraulic conductivity may cause waterlogging issues and requires drainage management.	

QUALITY INDICATORS

Overall Quality Score 80/100	Water Retention Excellent
Nutrient Holding Excellent	Agricultural Suitability Excellent
Quality Assessment: Excellent soil quality with optimal characteristics for diverse agricultural applications. clay texture provides ideal growing conditions.	

4. CROP RECOMMENDATIONS

SUITABLE CROPS

Clay-Rich Soils: Excellent for crops requiring good water retention.

Recommended: Rice, Wheat, Soybeans, Alfalfa

Management: Improve drainage, avoid compaction, deep tillage when dry.

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