

# State University Soil Lab - Soil Analysis Report

Professional Soil Water Characteristics Analysis

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**Company:** State University Soil Lab

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**Analysis Type:** ENTERPRISE Plan - Custom Report

## Executive Summary

**Soil Classification:** sandy clay loam

**Water Holding Capacity:** 9.1% Plant Available Water

**Drainage Characteristics:** 28.3 mm/hr saturated conductivity

**Overall Assessment:** Moderate soil water characteristics suitable for most crops.

## Detailed Soil Composition

**Sand Content**

**58.7%**

**Clay Content**

**22.1%**

**Silt Content**

**Organic Matter**

19.2%

2.1%

## Hydrological Properties

Field Capacity ( $\theta_{FC}$ )

18.9%

Permanent Wilting Point  
( $\theta_{PWP}$ )

9.8%

Plant Available Water (PAW)

9.1%

Saturation Point ( $\theta_S$ )

46.4%

## Physical and Chemical Properties

USDA Texture Classification

sandy clay loam

Saturated Hydraulic  
Conductivity

28.3 mm/hr

Bulk Density Factor

1.42 g/cm<sup>3</sup>

Gravel Content

0%

## Management Recommendations

- Implement water conservation practices
- Consider drought-tolerant crop varieties

Generated by State University Soil Lab using FlahaSoil Enterprise Analysis System

Based on Saxton & Rawls (2006) Soil Water Characteristics methodology

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