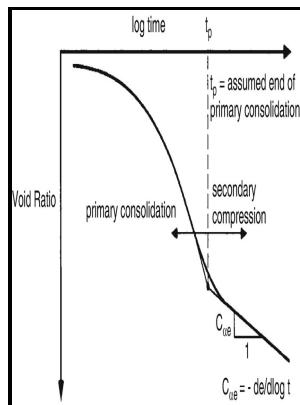


# Pore pressure and volume change characteristics of compacted clay.

**University of Salford - Effect of intrinsic microscopic properties and suction on swell characteristics of compacted expansive clays**



Description: -

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## Strain Energy, Yielding and Undrained Shear Characteristics of High Plasticity Compacted Clay Subjected to Stress Anisotropy

Figure 15 shows a tillage pan that formed due to fall moldboard plowing when soil conditions were too wet.

### Soil compaction

Both compacted and reconstituted specimens, which were expected to have different degrees of aggregation, were tested.

### Effect of intrinsic microscopic properties and suction on swell characteristics of compacted expansive clays

This note has attempted to investigate these influential factors on five different expansive clay samples to enable further understanding of swell behaviour. Your soil is your most important resource when growing a healthy and profitable crop. Therefore, undrained soil properties in saturated state are essential to obtain for the stability analysis and design of certain conditions, such as rapid drawdown case.

### Volume change behaviour of a saturated lateritic clay under thermal cycles

The study concluded that the compaction created from the higher psi decreased plant population versus no compaction.

## Strain Energy, Yielding and Undrained Shear Characteristics of High Plasticity Compacted Clay Subjected to Stress Anisotropy

Slightly compacted soils in a dry year can increase crop yield as discussed earlier. As soil compaction increases beyond optimum, yields begin to decline. Research: Tractor compaction Figure 25: Soil compaction of four-wheel drive and tracked tractors under various draft loads.

## Strain Energy, Yielding and Undrained Shear Characteristics of High Plasticity Compacted Clay Subjected to Stress Anisotropy

This is mainly due to the downward pressures exerted from the guide wheels. One-dimensional vertical swell and swell pressure tests were carried out using the standard oedometer to establish the extent of swell.

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