# Ag 101: Saline vs. Alkali soil

Your soil has a unique story

Soil is the foundation of everything produced in agriculture. But how well do you know the variable qualities and yield potential held within all those inches of soil across acres of farmland?

## Did you know?

Often, saline soils are incorrectly referred to as "alkali" soils.

### What are the differences?

Saline soil Soil containing dissolvable, or soluble, salts at high enough levels to impact crop productivity.

Alkali soil Soil that contains enough sodium to interfere with crop growth.

Alkaline soil Soil with a pH > 7. Also referred to as a 'basic' soil.

pH influences nutrient availability and can directly impact plant growth while also affecting the breakdown of certain soil residual herbicides.

Soluble salts are a problem because they keep water and dissolved nutrients from entering plant rootsp



### Symptoms of saline salt

White crust on soil surface



### Did you know?

Sodium is not salt

- Sodium is a mineral and one of the chemical elements found in salt
- Salt is known as sodium chloride and is harvested from salt mines or by evaporating ocean water.

#### **3 points to remember:**

Saline soil

Alkali soil

Alkaline soil



↑ pH