



Stoller

Unleashing The Power Of Plants

> SALT MANAGEMENT

AQUA-CAL AND ROOTFEED

> SALINITY - THE PROBLEM

Vast reserves of stored salt exists beneath the land surface.

Recent land use practices have substantially increased the amount of water leaking into the groundwater beneath the root system. As a result the water table is rising to the surface.

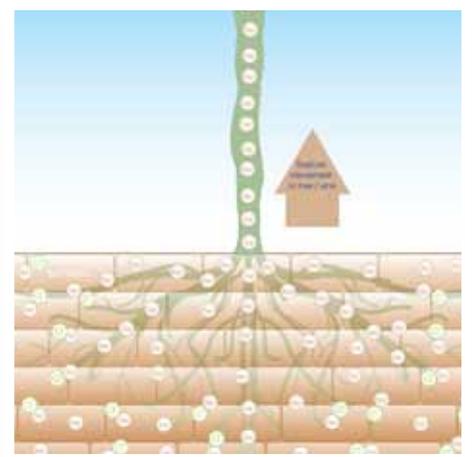
Where the ground water contains salt or intercepts the vast stores of ancient salt in the landscape, this salt seeps to the surface of the land, and into the rivers and streams.

Irrigation adds to the rising water table and can also be a direct source of salinity.

The salt is mainly sodium chloride.

Sodium is the element that causes salt damage to plants and reduces yields.

High levels of chloride can also be toxic to plants.



> PROBLEM

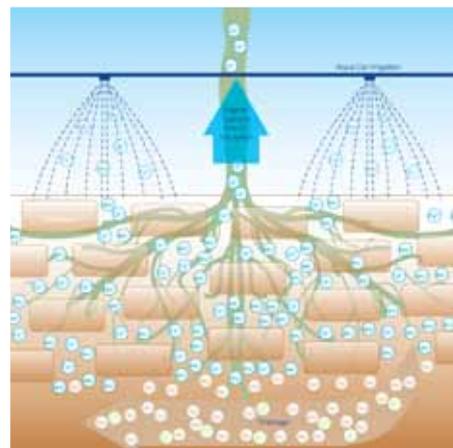
High soil sodium levels cause tight binding of soil particles resulting in poor drainage. High levels of sodium in the root system is toxic to plants.

> SALINITY - THE SOLUTION

No single solution will solve the salinity problem however Stoller's Aqua-Cal and RootFeed are ideal for managing salinity in the crop.

The most effective methods of dealing with salinity are likely to be a combination of different land uses and management practices which better manage the root zone of the plants.

Solutions will include farming systems that combine the best current annual and perennial plants, the best agronomy, rotations and combinations of these.



> **SOLUTION**
Calcium and amine nitrogen displaces sodium and opens the soil. Mass action – healthier roots.

STEP 1: MASS ACTION

Aqua-Cal

Analysis (%w/v) N 6, Ca 12

Application Rate 50-70 L/Ha

- > Contains stabilised amine nitrogen which carries a positive charge
- > Amine nitrogen displaces sodium from the soil particles which are then leached beyond the root zone by rain or irrigation
- > Calcium opens the soil and protects against the return of salt
- > Roots grow more actively with the improved drainage
- > The mass action immediately displaces sodium
- > Apply Aqua-Cal at the beginning of a leaching irrigation



STEP 2: MAINTENANCE AND PREVENTION

RootFeed

Analysis (%w/v) N 12, Ca 8.5, Mg 2 – Stoller's co-factors

Application Rate 10 L/Ha per week or 20-40 L/Ha per fortnight

- > Maintains the features of Aqua-Cal but also assists in the development of additional root growth for increased nutrient uptake to support balanced healthy growth.
- > RootFeed is used in frequent small application to optimise plant productivity and has the additional benefit of similar salt management properties as Aqua-Cal.



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