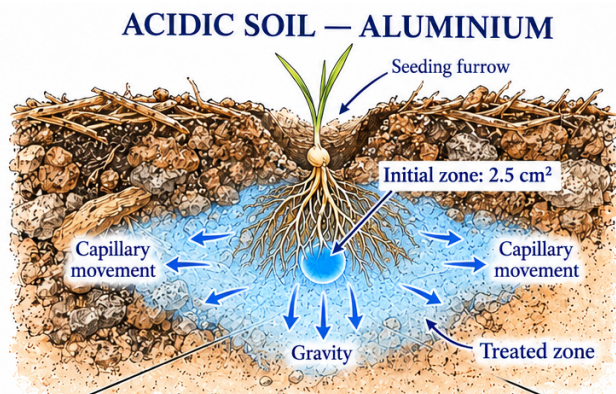
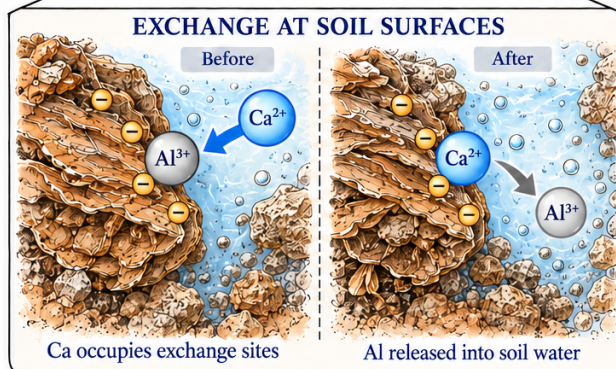


## Calcium at the centre.

Supplies calcium to increase calcium saturation of the soil's cation exchange capacity (CEC), supporting displacement of exchangeable aluminium in acidic soils and sodium in sodic soils.

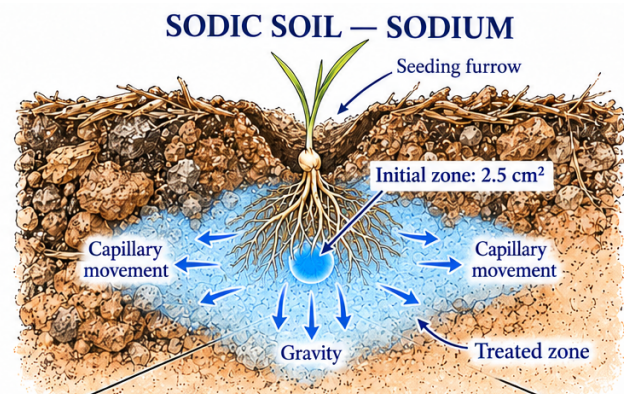
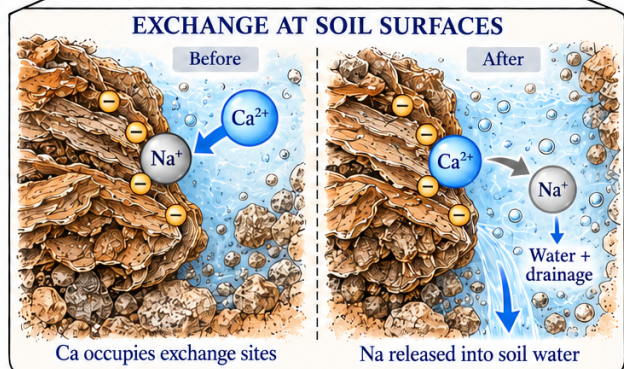
**62 g/L**

**Calcium (Ca) | With organic carbon**



Aluminium toxicity also depends on pH and chemical form.

Conceptual pathways • Not to scale or a measured treatment outcome



Displaced sodium requires leaching beyond the root zone.

The illustrated 2.5 cm<sup>2</sup> starting zone is an area, not a fixed treated volume. Capillary and gravitational water movement distribute the solution. Actual contact depends on soil, moisture and applied water.

Acidic soils: exchange alone does not establish aluminium detoxification; assess pH and Al chemistry. Sodic soils: displaced sodium needs leaching and drainage. CEC is held fixed in the calculator; adding calcium changes saturation, not the measured exchange capacity.



## Choose the placement.

### BROADACRE IN-FURROW

**4-8 L/ha**

Target the root-zone band.

### DEEP PLACEMENT

**20-40 L/ha**

Place into the soil constraint.

### FERTIGATION

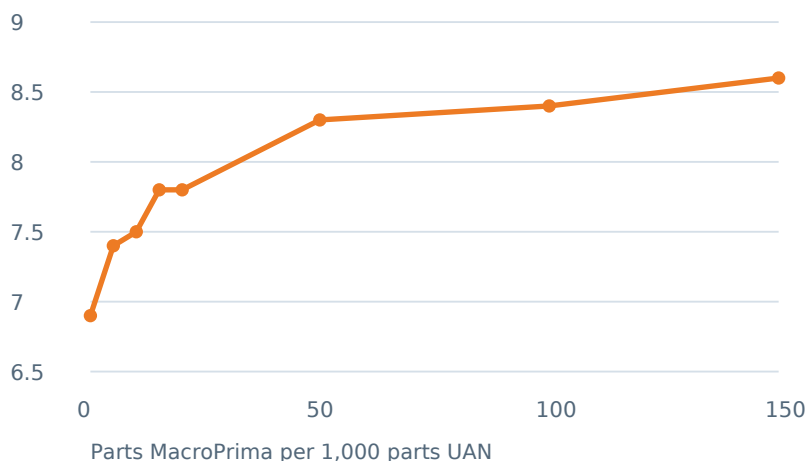
**100 L / 1,000 L**

Product per irrigation water.

Fertigation: 100 L product per 1,000 L irrigation water. Determine the total rate for the irrigated area. Follow the current product label, SDS and complete-mix compatibility guidance.

## MacroPrima titration curve

### MEASURED pH



**6.9 to 8.6**

Measured pH as MacroPrima is added to UAN. Eight recorded points; connecting lines are a visual guide.

Source: Master Worksheet, UAN MacroPrima Buffer, May 2025, rows 11-21. Original units are parts; volume units are not specified. Historical laboratory dataset; current-product equivalence is unverified. This curve does not predict soil pH or a field dose.

## From soil report to application scenario

Upload a text PDF or CSV, review exchangeable cations and select the sample. Reported CEC is retained; where sufficient exchangeable ppm data exist, effective CEC can be estimated. Missing values stay blank.

Texture-based bulk density is a reference, with a measured override. Gravel must be a volume percentage. The target-rate result assumes all supplied calcium becomes exchangeable within the defined soil mass; it is not a validated application recommendation or pH prediction.

[Open the field guide, trial data and calculator](#)

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