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Fertiliser (P/ammonium) placement may be critical for adequate nutrient supply without burning the seedlings, especially in drying soil

Nutrients (eg. K and S) can be washed out of crop residues with water

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Most crops can hydraulically lift water from subsoil to topsoil, allowing nutrient uptake from dry topsoil

Conclusions

It is important to breed cultivars with root architecture appropriate for a given environment:

- shallow roots for foraging nutrients in the topsoil and

- deep roots for taking up water when topsoil dries out

3-D models simulating root growth and water and nutrient uptake have a potential to be used in breeding programs for producing cultivars with optimal root architecture for a given environment

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