Dynamics and mineralisation of nitrogen in soil fertilised with brown coal-urea blends

Biplob K. Saha
Michael Rose
Vanessa Wong
Timothy R. Cavagnaro
Antonio F. Patti
Why do we need to think about N?

(NH₃) (Less than 50%) (N₂) (N₂O)  

Increased cost of production  

Ammonium NH₄⁺  
Nitrate N(Ο)₃⁻  

Leaching
Findings

✓ Reduced N losses via leaching and gaseous emissions
✓ BCU blends maintained higher amount of mineral N in soil
✓ Greater amount of N will be available to plants for longer period of time
✓ Increasing use efficiency of N fertiliser