Efficacy of Three 15N Labelling Techniques for Estimating Below-Ground N in Sesbania rostrata. (S04-ladha031450-Poster)

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Abstract:

Three 15N labelling strategies for estimating below-ground N in Sesbania rostrata grown in pots under flooded conditions were examined. The estimated proportions of total plant N resident below-ground were 13 % (stem injection), 42 % (leaf immersion) and 56 % (adventitious root feeding). The average estimate based on leaf and root immersion (49 %) was considered to be realistic on the basis of published literature with other foliar labelled legumes, while root and root-derived N appeared to be underestimated by stem injection.

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Presentation Information:

Presentation Date: Tuesday, November 12, 2002
Presentation Time: 2:00-4:00 pm
Poster Board Number: 1639

Keywords:

Adventitous root labeling, Foliar labeling, 15N, Stem injection