

## **B-14: Effect of foliar application of nitrogen on the performance of chilli grown on regosols**

**V Arulnandhy**

*(Faculty of Agric, Eastern Univ Chenkalady)*

The aim of this study was to find an effective method of nitrogen application to chilli crop grown on light sandy regosols. Urea solutions at 2% and 4% concentrations were given as foliar application at 3 and 4 week intervals, from 2 weeks after transplanting upto 2 1/2 months, to the chilli crop which received half the recommended nitrogen (60 kg) as soil application. The experiment, in a randomized complete block design, was carried out at the Agricultural Farm Eastern University, Chenkalady.

The treatment, consisting of foliar application of 2% urea at 4 week intervals and half the recommended nitrogen applied to soil, produced 5520 kg green pods per ha, which was close and statistically equal to the yield obtained from the recommended nitrogen application (5750 kg/ha). However, the amount of nitrogen used was reduced by 45 kg/ha, compared to the recommended nitrogen level and it was estimated to be 30% reduction in the use of nitrogen fertilizer. The foliar application of 4% urea showed adverse effects as leaf scorch.

The use of 2% urea as foliar application with half the recommended nitrogen (60 kg/ha) as soil application is economical and more profitable to the farmers who grow chilli crop on light sandy regosols in the Eastern Region.