

Project Details

Effect of zinc on nitrogen metabolism and nutritive metabolism and nutritive value of clusterbean (*Cymopsis tetragonoloba* L. Taub)

Project Information	
Project ID	PPJ_100122
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Project Title	Effect of zinc on nitrogen metabolism and nutritive metabolism and nutritive value of clusterbean (<i>Cymopsis tetragonoloba</i> L. Taub)
Description	The present investigation was undertaken with a view to (i) study the effect of varying level of zinc on morphophysiological parameters at different growth stages, (ii) study the effect of zinc on activity of enzymes of N-metabolism, and (iii) study the effect of zinc on the nutritive value of clusterbean. Clusterbean (<i>Cyamopsis tetragonoloba</i> (L.) Taub. cv. HG-563) plants were raised in earthenware pots with sandy loam soil deficient in zinc (0.36 ppm). Two experiments were conducted based on mode of zinc application viz. (i) Effect of soil application of zinc on clusterbean. (ii) Effect of foliar spray of zinc on clusterbean. The observations recorded are summarized below: Visual observations revealed deficiency symptoms of zinc in clusterbean plants with no zinc application (control). In control plants, the terminal leaves were smaller than normal and discoloration between veins within 15 days of sowing was observed. In addition, stunted plant growth with less plant height and leaf number was observed in control plants. Application of zinc through soil and foliar spray of 0.5 per cent ZnSO₄ corrected the deficiency symptoms and plants showed healthy growth, greenness of leaves, increase in height of plants and number of pods.
Grant Number	NA
Funding Agency	College of Basic Sciences, CCS Haryana Agricultural University

Publications (DOI / PMID)	NA
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Project Type	Individual

Consortium Details

No consortium members registered for this project.

Crop Details

 Cyamopsis tetragonoloba (L.) Taub Taxon ID: 3832
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