

25% yield increase

BEAN

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OBJECTIVE

Evaluate the effect of mycorrhizal inoculation on bean growth.

METHOD

This field trial was conducted in La Pocatière (QC, Canada). The beans, cv “Indy gold”, were sown in 3-meter rows in a sandy loam type of soil. Prior to planting, the soil had been lightly tilled. At planting, an organic fertilizer (5-6-1) was applied at a rate of 125 g per row meter. Half of the plants received the mycorrhizal inoculant, which was incorporated in the soil at seeding, while the other half (control) was not inoculated. A randomized complete

block design with four replicates was used for this trial. Beans were harvested weekly throughout the pod production period. The parameters measured were the number of pods and their weight.

RESULTS

The number and the weight of the pods per plant inoculated with the mycorrhizal fungus were significantly higher than the non-inoculated controls. The inoculated plants produced an average of 17% more pods and the yield (weight) was on average 25% higher.

