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The effect of conventional and nano fertilizers on the growth of Zea mays

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The necessity to explore sustainable agricultural practices has become imperative with the ever-increasing world population and limited land availability for farming. Macronutrients as well as micronutrients are indispensable for proper growth plants and better crop yields. These nutrients should be supplied to plants externally because the most soil does not provide nutrients needed for the plant growth. Farmers understood this phenomenon and started using fertilizers in crop production even from the early stages of civilization. Zea mays is a crop which has a high demand all over the world and considered as a staple food in many geographical regions. To meet the increasing global demand for Zea mays, farmers should take necessary steps to increase crop production. This could be achieved by identifying the correct fertilizers which are competent to provide better crop yields in Zea mays, as then they can use them to elevate the crop production. This study discusses how the growth and crop yield of Zea Mays is affected by different types of fertilizers. When compared with conventional fertilizers, it was clearly observed that the nanofertilizers are highly capable of supplying nutrients to Zea mays in an efficient manner, thus leading to improved growth and better crop yields.

Biography

Madhavi de Silva is a PhD student at the University of Sri Jayewardenepura, Sri Lanka. Her research work focuses on developing nanohybrids as plant nutrients. She has participated in global conferences and has a publication.

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