

## The Importance of Vermicompost on Converting Fertilization System From Chemical to Organic in Turkey

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**Aim of the study:** Vermicompost is a kind of fertilizer that is received after digestion of some organic wastes by earthworms. Eventhought its application has an increasing trend, there are still some drawbacks about this valuable fertiliser's application. The strongest effect on this situation is the attitudes of farmers from the old school.

The aim of this study is to introduce the current status of vermicompost usage on transition to organic fertilizer from chemical fertilizers in Turkey.

**Material and Methods:** This study is planned as a review.

**Results:** Parallel to increasing population, more food is needed around the World. In last decades, gaining high yield with intensive farming in which so many chemical fertilizers are used were a trend. Chemical fertilizer use has reached around 11 million tonnes in 2015. However, after many years with many hazards on soil, water and ecological cycle; transforming fertilization choices from chemical to organic ones came to prominent.

Vermicompost is a recently known fertilizers in Turkey. None the less the usage amount has risen to a considerable rate. The main of this positive trend can be enlightened with vermicompost fertilizers' various advantageous. These properties of vermicomposts can be summerized as:

- Enhancing soil chemical, physical and biological characters
- Supporting some plant nutrients
- Converting some organic wastes to a valuable input for farming
- Helping plant to be more resistant to maladies and pathogens

In addition to this frame, researches on vermicompost fertilization must be focused in Turkey. This fertilizermust also be well presented to farmers for a better fertilization and more healty products.

**Keywords:** Vermicompost, organic fertilizer, chemical fertilizer, soil conditioner.