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ABSTRACT BOOK
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EFFECT OF OLIVE OIL CAKE ON THE QUALITY OF COMPOST AND VERMICOMPOST

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Effect of olive oil cake on the quality of compost and vermicompost was investigated for varying amounts of olive oil cake. Compost and vermicompost were produced from a mixture consisted of egg shell, cabbage, banana peel, nutshell, napkin, manure, garden soil and olive oil cake. Amount of garden soil, manure and olive oil cake was adjusted to be 75% of total weight and the amount of other ingredients were remained constant. The amount of olive oil cake was determined as 0 (control), 14, 29 and 36% of the mixture. A total of 4 system with stated olive oil cake amounts was composted for 2 months for maturation. The feed mixture for vermicompost was initially composted for 15 days until the end of thermophilic phase and then *Eisenia Fetida* species earthworms was added to the feed mixture to initiate vermicomposting. The precomposting stage was conducted to enable faster adaptation of earthworms to the mixtures. The worms were held for 45 days inside the mixtures. The stocking density was adjusted as 5 for all systems and a total of 4 systems with mixtures identical to the ones used in compost were used in experiments. The quality of compost and vermicompost were determined based on the analyses conducted on the sample. Total carbon content, total nitrogen content, C/N ratio and soil available nitrogen and phosphorus contents were selected as distinctive parameters for compost and vermicompost quality.

Keywords: Compost, Vermicompost, *Eisenia Fetida*