Effects of organic fertilizers on some physical properties of soil in 14 years

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Addition of organic materials to soil is one of the most common practices to improve soil physical properties. The purpose of this research was to study the impact of organic fertilizers and municipal waste compost on physical properties of soil during 14 years. In this study, Fadak park, with an area of 80 ha, in east of Isfahan, was selected. Some samples of soil in areas with desirable and undesirable growth were collected. The treatments were organic manure with the ratio of %30 sheep manure and %70 cow manure and municipal waste compost in areas with desirable growth. Measured parameters included bulk density, porosity, organic matter, pH and EC. Results showed that soil bulk density decreased from 1.57 to 1.55, also pH decreased from 8.7 to 7.7 and EC decreased from 45 ds/m to 30 ds/m in this region, organic matter increased from 0.3% to 1% and porosity increased from 0.4% to 0.5% in areas with desirable growth.

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