

## **Effect of azolla in composting of tree bark, tea wastes and rice hull**

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The effect of azolla in composting of tree bark, tea wastes and rice hull and evaluation of physical and chemical properties of mixes and organic matter with media standards for ornamental plants applied studied in Horticulture Department of Agricultural College, Tehran University, in Karaj.

At first tree bark, tea wastes and rice hull were mixed with 0%, 25%, 50%, 75%, 100% azolla (by volume) and then were composted. The mixes of compost for maturity estimation were sampled in 45 and 90 days. The experiment was designed in randomized complete blocks, with four replicates. Mixes after five month of composting were sampled again and with control mix contained 50% peat and 50% perlite were compared. In this time physical and chemical properties were measured.

Results showed that azolla were not significantly affected on rice hull when it was compost, but azolla in 50% and 75% ration significantly affected on tree bark and also azolla was significant on tea wastes in 50% and 75% ratio. Azolla compost is rich in nutrient elements. Tree bark compost have the best properties for ornamental plants media.