



## Study on the effect of different rates of chemical fertilizer, compost and mixture of them on quantitative and qualitative *Aloe vera* yield

A. Fariabi<sup>1</sup> and R. Ghazanchaei<sup>2\*</sup>

1. Faculty of Agriculture, Islamic Azad University of Jiroft

2. Ph.D Student of Soil Science, Islamic Azad University, Sciences and Researchs Branch,  
Tehran

This experiment was conducted on 2004 and 2005 in research farm of Islamic Azad university of Jiroft. In order to study the effect of different rates of nitrogen , phosphorus, compost and mixture of them, the experimental design was a completely randomized block design with 9 treatments including: different rates of N and P with 3 level, different rates of compost with 3 level and mixture of N, P and compost with 3 levels. Results showed that the yield increased with application of phosphorus as compared to control (0 kg phosphoric acid) and phosphorus concentration in leaves is decreased by increasing number of leaves. Compost increased yied too but mixture treatments higher than using them separately -compost increased uptake of nutrient element by plant and soil physical improvement

**Keyword: :** *Aloe vera*, Compost, yield, nitrogen , phosphorus

\* Corresponding author

Email: rezaghazanchai@gmail.com