## Effects of Nitrogen and potassium fertilizers on the yield and quality of Floribunda Roses

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Effects of nitrogen (N) and Potassium (K) on the quantry and quality of Floribunda Roses was studied in growing season.

Cuttings were grown in factorial experiment 4<sup>2</sup> with 3 replication, and each replication had five pots. Four levels of N and K fertilizers were 0.150, 300 and 450 ppm. Phosphorus was not used in this experiment due to the sufficient amount of p in the studied soil (18ppm with Olsen Method).

The results of this investigation showed that an increasing the supply of N and K fertilizer significantly increased the amounts of these elements in the leaves. There was also highly correlation coefficient between K contents in the leaves and number of flowers and leaves, percent of blindness, longevity and dry matter. The increment of inleaves by in creasing supply of N to plant was not significant. Correlation coefficient between N content in the leaves, and number of flowers and leaves, percent of blindness, longevity and dry matter was lower. These result are in accordance with findings of Johansson (1978, 1979) and Woodson (1982).

Maximum flower production was obtained from the N3K4 treatment. Average amount of N and K in the leaves in this treatment for the three flushes were N-199 and K-1.89 percent of dry matter.