

**EFFECT OF FERTILIZER TYPE ON VEGITATIVE GROWWTH CHEMICAL
CHARACTRISTICS OF THREE GENOTYPES OF CAULIFLOWER (*Brassica
olearacea* var botrytis).**

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Abstract

A field experiment was conducted at private farm in Kana'n town at Diyala province during the growing season of 2013- 2014, to study the effect of organic and chemical fertilizers on vegetative growth characteristics of three cauliflower genotypes namely, Nhar, Soled and G4 . Six types of organic and chemical fertilizers (poultry manure, sheep manure and cow manure DAP fertilizer and triple superphosphate fertilizer), as well as control treatment (without fertilization).

A factorial experiment with split plot design within Complete Randomized Block Design with three replicaties .The data were tested by Least Significant Difference (L.S.D) at 0.05 level of probability. and stuieded the following characteres: the percentage of dry mater, N, P and K in leasve which arround curd befor and at end harvesting.

The resultscan be summarized as follow:

Nhar genotype was significantly effect on percentage of dry matter, N, and K in plant leaves 24.22 , 3.08 and 3.87% befor buttoning and 20.68 , 2.31 and 2.58% at end harvesting respectively.

Poultry manure and DAP fertilizer treatments have a heighly significant effect over all treatments in organic matter, N, P and K percentage in plant leaves befor buttoning and at end harvesting 25.44 , 3.55 , 0.69 and 4.27% and 21.66 , 2.52 and (21.66, 2.52, 0.61 and 3.46 % respectively for poultry manure and (26.00, 3.57, 0.68 and 3.14) and (21.66, 2.52, 0.61 and 2.42) respectively DAP fertilizer.

The dual interaction of Nahr genotype with treated by poultry and DAP gave a significant results during buttoning and at end harvesting.

Keywords: Organic, chemicl Fertilization, cauliflower, NPK