International Journal of PharmTech Research
CODEN (USA): IJPRIF, ISSN: 0974-4304, ISSN(Online): 2455-9563
Vol.9, No.12, pp 133-138, 2016

Effect of ferrous sulphate with and without organic matter on growth, yield and nutrients content of Chickpea *(Cicer arietinum L.).*

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Abstract : Pot experiments were conducted at National Research Centre Greenhouse, Giza, Egypt to study the effect of ferrous sulphate (0, 3 and 6 g L^{-1}) without or with (20 ton per Fadden) farmyard manure on growth parameters, yield parameters and nutrient status of chickpea.

The obtained results indicate that:

* Application of ferrous sulphate at a rate of 6 gL^{-1} without or with organic matter increased the plant height about 31.7% and 28.2% and number of branches per plant about 13.2% and 30.9% as compared with control.

***** The highest value of protein and oil percentage recorded (24.1 %, 7.0% respectively) at 6 g L-1 ferrous sulphate with organic matter in chickpea seeds.

***** All the organic treatment increased growth parameters, yield parameters, macronutrient and micronutrient content in chickpea seeds.

Keywords: Chickpea- ferrous sulphate- farmyard manure-nutrient statues.

Hala Kandil /International Journal of PharmTech Research**,** 2016,9(12): 133-138.

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