



Journal

J. Biol. Chem.
Environ. Sci., 2017,
Vol. 12(1): 383-397
www.acepsag.org

SOYBEAN YIELD AND QUALITY TO FOLIAR AND SOIL APPLICATION OF NITROGEN AND POTASSIUM FERTILIZATION BY

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ABSTRACT

Two field experiments were designed in the Farm of Sids Agricultural Research Station Beni Swif Governorate during 2013 and 2014 summer seasons to study the effect of different rates of nitrogen and potassium added as either soil or foliar application on growth ,yield components (seed and straw yields) protein and oil yields as well as N, P and K uptake in addition to economic assessment for research . Results indicate that the treatments of 75% from the recommended rates (RR) of N and K fertilizers as soil application combined with thrice sprays of 2% N and K as foliar spraying , or 50% RR in combined with five sprays of 2% N and K yielded of soybean production equal to those produced under 100% RR of nitrogen and potassium fertilizers . On the other hand , treated soybean plants with 2% NK as foliar spraying seven times alone showed the lowest soybean yield .

Key words : foliar spraying , growth , oil yield and NPK uptake, protein yield , Soil application , soybean , , yields ,yield components.