



**EFFECT OF SOME SAFETY COMPOUNDS AND
ORGANIC FERTILIZATION ON PRODUCTIVITY
OF STRAWBERRY FOR EXPORTATION**

BY

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Abstract

Two field experiments on strawberry plants (*Fragaria X ananassa* Duch) cv. Fortuna were carried out during the two successive seasons of 2017/2018 and 2018/2019 in El-kanater Horticulture Research Station, Kalubiya Governorate, to investigate the effect of organic or mineral nitrogen fertilization levels with soil addition of humic acid, EM and TS as well as the foliar spray with some growth stimulants (Fosfolin, Mixodan and Oraset-x) on vegetative growth, chemical composition, fruit yield and its quality. This experiments included 16 treatments resulted from the combinations of four Nitrogen fertilizer treatments and four foliar spray treatments as follows, 50% compost- N + 50% mineral-N fertilizers +EM, 50% compost –N + 50% mineral-N fertilizers +TS, 50% compost –N + 50% mineral-N fertilizers + humic acid and 100% mineral N fertilizer at a rate of 200 kg N/fed as recommended dose. Meanwhile, foliar spray treatments, Fosfolin at 5ml/l, Mixodan at 2g/l, Oraset-X at 1g/l and control (sprayed only with tap water). Obtained results showed that, the application of the recommended dose of nitrogen fertilizer (200kg N/fed) in form of 50% compost +50%mineral N +TS combined with foliar spray with Fosfolin at 5ml/l gave the highest vegetative growth parameters, chemical constituents of plant foliage, fruit yield and its components (early, exportable, marketable and total yield per plant and fed) and best physical and chemical fruit quality.

Key words:- Strawberry – mineral – organic- nitrogen fertilizer-growth stimulants

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