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## Evaluate the Response of Sunflower Productivity to Modern Chemigation systems in New Reclaimed Lands

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**Abstract:** Field experiments were conducted during two successive growing seasons in split split plot design at the National Research Center farm, El-Nubaria area, El-Behaira Governorate. Experiments investigated the effect of fertilization treatments: (traditional method of fertilization; fertigation technique), three levels of compost tea 30, 50 and 80 L/fed (CP1, CP2 and CP3) and three levels of humic acid 2, 3 and 4 L/fed.(HA1,HA2 and HA3)on sunflower Productivity. Data obtained indicated that FM surpassed TM in all the growth characters. Decreasing the applied organic fertilizers adversely affected the growth characters and the differences were significant at the 5% level.The main results could be summarized as follows: the highest seed yield (1450 kg/ fed.) was obtained in the treatment (FM×CP2×HA3) while the minimum one was 980 kg /fed obtained in the treatment(TM×CP1×HA1), respectively. The highest and the lowest oil yield of sunflower (630 and 280 kg oil fed-1.) were obtained with treatment FM x CP2 x HA3 and TM x CP1 x HA1, respectively.

Keywords: SunflowerProductivity, organic fertilizer, humic acid, compost tea.

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