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AHW017-P03

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## Application of Deardorff model to estimate evapotranspiration in an agricultural land of the Nile Delta

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Projected increase of water consumption due to the planned expansion of agricultural land in Egypt is one of the problems for the sustainable agriculture. Control of evaporative water consumption is suggested as one of the water-saving measures to remedy this issue. To assess current situation, estimation of evapotranspiration was carried out.

Evapotranspiration was evaluated by using eddy correlation method and it was partitioned into soil evaporation and transpiration by applying Deardorff model. This model does not need many parameters as inputs. Some initial findings were obtained will be presented.