

## **The Influence of the Scattered Possessions on the cost of Rehabilitation of Irrigation Networks and the Employment of Modern Irrigation Techniques (e.g. Drip Irrigation)<sup>1</sup>**

**Wasef Assaad<sup>2</sup>**

### **Abstract**

One of the main obstacles faced when moving to more modern irrigation systems is narrow and lengthy land areas.

The author studied the effect of moving to irrigation on a Sample Area of 170 hec in the Holla irrigation network, which has recently been converted to a pressurized pipe network, but still faces the same difficult conditions such as Lengthy and narrow land areas.

For that purpose , the author compared three alternatives. The first being the consolidation of small land areas. The second being the present land situation. And the third redistribution of land in more appropriate dimensions.

Finally the author estimated the increasing costs of the present situation caused by current land distribution practices in comparison to other alternatives which is very important when moving to new irrigation techniques.

<sup>1</sup> For the paper in Arabic see pages (119 –142 ).

<sup>2</sup> Dep. of Water Engineering, Faculty of Civil Engineering Damascus University.