

## THE EFFECT OF THE ALGAE ON SOME CHARACTERISTICS SHAPE AND CHLOROPHYLL RATIO FOR FOUR TYPES OF WHEAT.

AL-Avebani .Marah.Gh

\*Dept. Of Field Crops-College of Agriculture and Forestry-University of Mosul.  
Gh.Marah@yahoo.com

### ABSTRACT

This research included separate experiments under the same circumstances and treatments, the first experiment included planting two cultivars of bread wheat (Bohouth-4) and (Cham-8) in a sandy soil and the second experiment was planted two cultivars of durum wheat (65-Acsad and Doma -1) in a clay soil then were added algae-type Albeleomaraa for both experiments with three quantities of moss is (zero, 20 and 40g/ pot). The results of bread wheat showed superior significant in the dry weight of plant \ pot with adding(40g\ pot) of the moss note that the product (Sham -8) was most responsive to this superiority, the percentage of chlorophyll in the leaves\ pot decreased significantly with the addition of second and third level of moss, this decrease was more obvious in the cultivar (Bohouth -4), but in length of spike (cm) \ pot the control treatment was superior in both cultivars compared with other levels of adding moss. In plant height (cm) \ pot trait there was no difference between the three levels of moss but the cultivar (Bohouth- 4) record the highest value in his interaction with the concentrations (20 and 40) g \ pot of moss. In number of spikes\pottrait cultivar (Sham-8) value was significant superior in its interaction with concentration (40g \ pot) of the moss comparing with (Bohouth-4) and so on in number of non fertile tillers\ pot the addition treatments showed superiority in reducing the number non fertile tillers\pot noting that the cultivar (Sham -8) with its interaction with(40) g of moss did not give any presence of non fertile tillers\ pot. As for durum wheat, the 2 cultivars has risen significantly in dry weight of the total plant\ pot with adding the moss and the cultivar (Doma -1) is the most superior especially with its interaction with(40g\ pot) of the moss, while there are no any significant difference in percentage of chlorophyll in leaves \ pot with the three levels to add moss note that the cultivar (ACSAD -65) was significantly better. In length of spike\pot trait the cultivar (ACSAD -65) was significantly better, especially in its interaction with the level (40)g\ pot add the moss. There was a significant increase in plant height for both cultivars, but the cultivar (Doma -1) was superior, especially in its interaction with the level (40g\ pot) of the moss and such was the case with the trait of the number of spikes\ pot ,the cultivar (Doma-1) has significantly value than the other cultivar, especially with its interaction with the level (40) g\ pot of moss, In number of non fertile tillers\ pot there is no significant differences between the 2 cultivars.

**Key words :** Algae , Algal fertilizer, bio fertilizer, agriculture using algae.