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Abstract

An experiment was conducted at Hydroponics laboratory of department of field crops sciences ,college of Agriculture,University of Basrah in 1/2/2013 to study the effect of nutrition solution levels ,rate of seeding and their interaction of growth ,wet and dry weight of sprouting Barley (*Hordeum vulgare* L.) .

The experiment was carried out by using three types of nutrient solution : TE(trace element)+1.67%K+2%P+5%N(L1),TE+3.33%K+4%P+10%N(L2),andTE+5%K=6%P+15%N(L3),and three rates of sprouting seeds(125,150,and 175)g dish-1 which coded by D1,D2 and D respectively . The dimension of dish were 17*27 cm .Factorial experiment was designed by R.C.B.D design with four replicates .Results showed that the sprouting (D3) product the highest values of studied traits ,Also the level L3 of nutrient solution gave the same effect on these studied traits.Interaction between D3 and L3gave the highest values of studied traits while the interaction between D3 and L3 gave the highest plant height (23cm).