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(Sakha-93, Masry-1 and Baniswif-6) that were obtained from wheat Res. Inst. Agric. Res. Center, Giza, Egypt. e experiment treatment as follow:

e pot experiment

e studied treatments: A. Wheat cultivars: Sakha-93, Masry-1, Baniswif-6.

B. Application a ecting the availability of phosphorus: Control (untreated) P1, Adding 100% phosphorene (bio- fertilizer) P2

At the rate of 8 envelopes/fed, the weight of each on 500 g in two equal portions as follow:

the rst at sowing by mix it by the seed,

e second was added before the rst irrigation before planting by mix the content of the envelops by amount of the soil and broadcast it gast before irrigation.

1. Adding 100% Humic acid (organic fertilizer) 6 % at the rate of 40 L/fed as foliar application in 200 L/fed. P3

2. Adding 100% phosphorene (at the previous rate and methodology)+100% humic acid as foliar application at the previous rate. P4

ese studied treatments were arrangement in complete randomized design with three replicates where the number of pots was

Citation:

index was increased under the condition of applying P4 treatment by 9.14, 9.06 and 8.74% under the pot and eld experiments during 2011/2012, 2012/2013 and 2013/2014 seasons. ese results could be explained on the light the favorable e ect of phosphorus as an nutrient