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ORIGINAL ARTICLE

RESPONSE OF FABA BEAN CULTIVARS (*VICIA FABA* L.) TO PHOSPHORUS APPLICATION

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Abstract: A field experiment was conducted to investigate the impact of phosphorus fertilizer rates (P_0 = 0, P_1 = 35, P_2 = 70 and P_3 =105 Kg/ha) on some growth characteristics, yield component and grain yield of four faba bean cultivars (V_1 = Luzde utono, V_2 = Iquadolis, V_3 = Iquadolge and V_4 = local) during the winter season 2019-2020 at a private field in Al- Zubair district, Basrah, Iraq. A split plot design of three replications was used, the levels of phosphorus were allocated in the main plots while cultivars were in sub-plots. The results showed that application of 70kg /ha resulted in higher number of pods / plant (10.624), 100 seed weight (126.933g), seed yield about (847.891kg/h) over the unfertilized control treatments. Cultivar Luzde utono resulted in highest growth characteristics, and seed yield (734.307 kg/ha). All interactions were significant. Cultivars Local and Luzde utono with P_2 =70 Kg/ha gave the highest seed yield 877.180 kg/ h and 874.370kg/ha, respectively.

Key words: Faba Bean, *Vicia faba L.*, Phosphorus Application, Split plot design.

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