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## RESEARCH ARTICLE: Fixation and release pattern of potassium under graded levels of potassium application in soils of Kurnool district

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## **ARTICLE CHRONICLE:** SUMMARY: An incubation was carried out in ten surface soil samples (0-15 cm) to study the fixation **Received** : and release pattern of K under the influence of different levels of potassium in soils of Kurnool district. 13.07.2017; The soils under study were moderately coarse to fine in texture, neutral to slightly alkaline, non saline Accepted : and non-calcareous. Water soluble potassium content increased from 0 to 14 DAI and later on gradually 28.07.2017 decreased from 21 DAI to 120 DAI in fertilizer treatments. However, in control water soluble K content gradually decreased from 0 to 120 DAI but still existence of water soluble form up to 120 DAI. Available K content increased in control from 0 to 14 DAI whereas in fertilized plots (from 30 to 90 kg K<sub>2</sub>O ha<sup>-1</sup>) increased upto 21 DAI, later on gradually decreased upto 120 DAI. Unlike water soluble and available potassium mean fixed potassium gradually increased upto 0 to 120 DAI in fertilizer treatments, whereas in control mean fixed form of K decreased gradually from 0 to 120 DAI. KEY WORDS:

Soil, Potassium, DAI, Water soluble

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