

**RESEARCH ARTICLE :**

## Herbicidal effect of Propaquizafop, Imazethapyr and Pendimethalin on Morpho- Physiological structural components of black gram (*Vigna mungo* L.)

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**SUMMARY :** A field experiment was conducted at Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur during kharif 2014-15 to assess the effect of different herbicides on morpho-physiological structural component of black gram (*Vigna mungo* L.). The experiment was laid out in randomized block design (RBD) with three replications and nine treatments included different herbicides *i.e.* Propaquizafop, Imazethapyr and Pendimethalin in different concentration which significantly affected the physiological parameters, growth determinants and yield attributing traits. It was concluded that post emergence herbicide application as combination of propaquizafop+ imazethapyr (56+85 to 53+80 g/ha) was found more effective to control weeds after the hand weeding in black gram.

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**KEY WORDS :**

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