## Growth Parameters of Direct Sown Rice as Influenced by Different Weed Management Practices

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## ABSTRACT

A field experiment was conducted to study the effect of sequentially applied herbicides on growth and yield of direct sown rice was carried out at at Agricultural College Farm, Bapatla during *kharif* 2015-16 and 2016-17. Pre emergence application of bensulfuron methyl + pretilachlor with safener *fb* post emergence application of azimsulfuron at 25 DAS *fb* post emergence application of metsulfuron methyl and chlorimuron ethyl at 45 DAS ( $T_9$ ) recorded significantly maximum number of tillers (563 and 573 No. m<sup>-2</sup>), higher dry matter 11931 and 13556 kg ha<sup>-1</sup>) at harvest during both the years respectively and it was on par with Pre-emergence application of bensulfuron methyl @ 60 g a.i. ha<sup>-1</sup> + pretilachlor with safener at 500 g a.i. ha<sup>-1</sup> *fb* post-emergence application of metsulfuron for metsulfuron methyl @ 25 g a.i. ha<sup>-1</sup> at 25 DAS *fb* post-emergence application of metsulfuron ethyl @ 25 g a.i. ha<sup>-1</sup> applied at 45 DAS ( $T_{10}$ ) and Pre-emergence application of metsulfuron methyl @ 25 g a.i. ha<sup>-1</sup> *fb* post-emergence application of azimsulfuron ethyl @ 25 g a.i. ha<sup>-1</sup> *fb* post-emergence application of azimsulfuron at 25 DAS *fb* post-emergence application of metsulfuron methyl and chlorimuron ethyl @ 25 g a.i. ha<sup>-1</sup> *fb* post-emergence application of azimsulfuron at 25 DAS *fb* post-emergence application of metsulfuron methyl and chlorimuron ethyl @ 25 g a.i. ha<sup>-1</sup> *fb* post-emergence application of azimsulfuron at 25 DAS *fb* post-emergence application of metsulfuron methyl and chlorimuron ethyl @ 25 g a.i. ha<sup>-1</sup> *fb* post-emergence application of azimsulfuron at 25 DAS *fb* post-emergence application of metsulfuron methyl and chlorimuron ethyl @ 4 g a.i. ha<sup>-1</sup> at 25 DAS *fb* post-emergence application of metsulfuron methyl and chlorimuron ethyl @ 4 g a.i. ha<sup>-1</sup> at 25 DAS *fb* post-emergence application of metsulfuron methyl and chlorimuron ethyl @ 4 g a.i. ha<sup>-1</sup> at 25 DAS *fb* post-emergence application of metsulfuron methyl and chlorimuron ethyl @ 4 g a.i. ha<sup>-1</sup> at 25 DAS *fb* post-emer

## **Key words:** Direct sown rice, Weed management, Tillers, Drymatter accumulation, Grain yield and Straw yield