

**RESEARCH ARTICLE :**

## Yield parameters and economic feasibility of safflower (*Carthamus tinctorius* L.) influenced by different management practices in northern dry zone of Karnataka

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**SUMMARY :** A field experiment on “yield parameters and economic feasibility of safflower influenced by different management practices in northern dry zone of karnataka” was conducted at Agriculture Research Station, Annigeri, UAS, Dharwad during *kharif* and *rabi* seasons of 2014-15 under rainfed condition. The total annual rainfall between April 2014 to May 2015 was 841.7 mm with 52 rainy days which was 175.8 mm higher than the average of 35 years (1978-2013). The experiment was laid out in a split-split plot design replicated thrice with 18 treatment combinations. Main plots consisted of three treatments, greengram for green manuring and greengram as a dual purpose both grown during *kharif* and one fallow. Succeeding safflower was sown during *rabi* season with two spacing of 45 cm x 20 cm and 60 cm x 30 cm as sub plots and three nitrogen levels 20, 30 and 40 kg N/ ha as sub-sub plot. Among the green manure treatments greengram as a dual purpose recorded significantly highest net returns (35362.60 Rs/ha) and B:C ratio (2.53). This indicates the possibility of growing safflower at wider spacing with application of only nitrogen with *in situ* green manuring without affecting its productivity and profitability under normal or above normal rainfall years.

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