



RESEARCH ARTICLE :

Comparision of micro sprinkler irrigation and surface irrigation methods on growth and yield for groundnut under Raichur region

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SUMMARY : Field experiment was carried out during December 2011 to April 2012 under Raichur climatic conditions. The performance of micro sprinkler irrigation for groundnut crop at 60%, 80%, 100% and 120% ET_c was compared with surface irrigation. The results indicated that there was saving of 66.41% and 57.29 % in 60 per cent ET and 80 per cent ET in micro sprinkler irrigation over surface irrigation. Maximum water use efficiency registered in micro sprinkler irrigation at 60 per cent ET (1.42 kg m^{-3}) and 80 per cent ET (1.26 kg m^{-3}) with the application efficiency of 82.80 % and 82.05 % in 60 per cent and 80 per cent ET. Uniformity in single micro sprinkler was 89.91 % and 87.69 % in 100 per cent over lapping at 1.4 kg cm^{-2} pressure, respectively.

KEY WORDS :

Irrigation, Micro sprinkler, Water saving, Water efficiency, Uniformity co-efficient

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