

## Influence of organic and inorganic sources of nitrogen on growth and yield of Rabi drilled fennel (*Foeniculum vulgare* Mill.)

S.L. ADHAV, P.G. SHETE\* AND Y.M. KUSHARE

Department of Agronomy, K.K.Wagh College of Agriculture, NASHIK (M.S.) INDIA

### ABSTRACT

Effect of organic and inorganic nitrogen sources were studied during 2007-08 on growth, yield and economics of winter fennel (*Foeniculum vulgare* Mill.) under south Gujarat condition at the Instructional Farm, N.M. College of Agriculture, Navsari Agricultural University, Navsari. Maximum seed yield and its attributes were obtained when recommended dose of fertilizer applied through inorganic sources. Different organic sources (castor cake, neem cake and biocompost) with inorganic fertilizer 1:1 ratio gave higher yield than recommended dose of N through inorganic source. The higher seed yield (2047.33 kg ha<sup>-1</sup>), net profit (29237.44) and benefit cost ratio (3.91) were obtained when recommended dose of fertilizer applied through inorganic sources.

Key words : Fennel, Castor cake, Neem cake and Biocompost