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JENG, ALHAJI, HARALDSEN, TROND KNAPP, VAGSTAD, NILS, GRØNLUND, ARNE, TVEITNES, STEINAR, Meat and bone meal as nitrogen fertilizer to cereals in Norway

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Abstract

Meat and bone meal (MBM) contains appreciable amounts of nitrogen (N), phosphorus and calcium making it interesting as fertilizer crops. The effect of Norwegian MBM as N fertilizer has been evaluated in pot and field experiments. The soils used in the pot of peat and a sand/peat mixture, both low in content of plant nutrients. The field experiment was carried out on a silt loam. In the soil based on peat organic matter. In the field experiment there was no period of N immobilisation and good N effect was for small amounts of MBM (Total N 50 kg ha-1). At total N 100 kg ha-1 there were no significant differences in grain yield of spring the treatments with MBM, mineral N fertilizer, and combination of MBM and mineral N fertilizer (N 50 kg ha-1 from each). The result the relative N efficiency of MBM compared to mineral fertilizer is 80% or higher, if MBM is applied to cereals in spring.

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[Full text] (PDF 96 kt)

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