



Measurement by static chamber of N₂O emission from agricultural soils

Suzana Florina VASILIU, Maria CIOROI - "Dunărea de Jos" University of Galați

The aim of this work is to estimate of nitrous oxide (N₂O) emission losses from agricultural soils. The emission of nitrous oxide was evaluated on a period of 10 months at the International Centre for Research in Organic Food Systems, ICROFS, Denmark. In order to evaluate N₂O gas flux, the static chamber measuring technique is used. The samples collected are then analysed using a Gas Chromatograph (GC) with electron capture detector for N₂O.

The results indicate a difference, in nitrous oxide emission, between the cold and the hot season. The values from the ecological plot during the cold season were located between 0.04 and 2.83 g N₂O -N / (ha*day), and during the hot season, the values were higher, located between 8.81 – 18.05 g N₂O -N / (ha*day).