Using different methodologies the wintering in farms in Northeast of La Pampa (Department of Quemú-Quemú) are classified according to technical efficiency level. Firstly, is modelled using lineal and non lineal Cobb-Douglas functions. Once the model is concreted, it is determined the deterministic frontier of Greene (1980b) and the respective technical efficiency index of Timmer (1971), which permits to classify farms. Finally the used methodologies are compared in order to evaluate the sensibility of the efficiency models for the used model.

**Keywords**

Cobb-Douglas functions. Non lineal models.
Efficiency. Grazing beef cattle.