

Title Management of stored maize by AERO controller in five Brazilian locations: a simulation study

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Abstract

A simulation model was used to quantify the effect of the AERO controller on dry matter loss, moisture content, grain temperature and required aeration time for five Brazilian States during one year. The application focused on maize because it is the dominant crop in the regions studied, but the analyses can be applied to other grains and locations as well. Decision making of the AERO controller is based on simulation of the aeration process and on real time data acquisition. It proved to be an effective strategy and showed its significant potential as a non-chemical preventative practice for safe storage.