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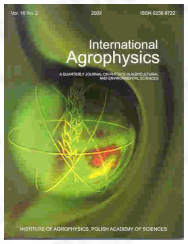

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previous paper back to paper's list next paper

Model study of the effect of barley grain moisture content on the distribution of horizontal and vertical pressures in a silo

(get PDF)

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abstract This study presents the results of the measurements of horizontal and vertical pressures in a silo, performed for dry barley grain with a moisture content of 13% d.b. and compares those results with the average values of horizontal and vertical pressures for barley grain with moisture contents of 17.7, 19.0, 22.7 and 24% d.b. and storage times from 1 to 10 days. The increased moisture content resulted in higher average values of horizontal pressure and lower average values of vertical pressure. The higher moisture content and longer storage time caused an increased in pressure values.

keywords barley, moisture content, silo, pressure