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Res. Agr. E

Ghabel R., Raj A., Ghasemi- Varnamkhasti

Modeling the mass of Iranian export onion varieties using physical characteristics

Res. Agr. Eng., 56 (2010)

Mass modeling can be used for development related to onion (*Allium cepa* L.) processing and food production processes. There are instances that determine relationships among crop physical characteristics and the mass of Iranian export onion varieties (Azad). This was predicted by using different physical characteristic models with three different classifications: (1) linear regressions of onion dimensional characteristics, (2) variable regressions of onion projected areas, and (3) based on measured (actual) volume and volume ratios (prolate spheroid and ellipsoid). The results showed that the mass of onion based on length and three projected areas are appropriate models in the first and second classifications. In the third classification, the highest determination coefficient was mass modeling based on the actual volume as