STUDY ON FRUIT QUALITY OF DIFFERENT APPLE VARIETIES

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ABSTRACT

Study in four hypermarkets in Cluj-Napoca, illustrated prevalence of known apple varieties in the world. Among them, were chosen for fruit quality analysis the cultivars existing in at least three of hypermarkets, namely: Golden Delicious, Braeburn (from Italy), Granny Smith, Starkrimson (Greece), Jonagold, Jonathan, Florina, Idared (Poland). Significant differences among cultivars were registered both for morphological and organoleptic characteristics of fruit. Fruit sugar content ranged from 11.3% (Jonathan) and 14.5% (Florina). For commercial appearance of the fruit were highlighted Idared, Granny Smith, Braeburn and especially Jonagold. Braeburn was marked by the highest quality taste (average grade 13.9 on scoring scale 1-15), including fruit flavour. Granny Smith commercially attractive-looking fruit, received only an average of 6.2 for taste of fruits and 2.6 for flavour. Granny Smith presented the largest value of the coefficients of variation for the consumer marks given for taste (50.9%) and flavour (37.3%), this variety being preferred less by women than men. The study showed absence or insignificant presence of Romanian varieties in some large retail groups in Romania, the quality of some varieties like Braeburn, Golden Delicious, Jonagold, and un-adapted local consumers with some varieties, such as Granny Smith, well rated in Western Europe (Sestraș, 2004; Mitre, 2008). Inconsistency of the market, prices and foreign assortment on Romanian market was illustrated by the lack of a statistically correlation between overall fruit quality and their cost price.

KEYWORDS
Cultivars, apple, organoleptic analysis, coefficient of variability, correlation

REFERENCES