

Title Harvest time on storage life of early and mild early Iranian native apple cultivars
Author Mehdi Eshghi, Hassan Hajnajari, Siamak Kalantari, Sima Damyar and Valiollah Rasouli
Citation Abstracts Book, 6th International Postharvest symposium, 8-12 April 2009, Antalya, Turkey.
256 pages.
Keyword Apple; storage; harvest time

Abstract

Early native cultivars are assumed by many local fruit growers affected by complete lack of storage capacity, in Iran, but preliminary researches showed that this theory was not commonly true and differences were noted among cultivars. Different factors contribute crop loss and decrease storage life but genetic factors have an important role. Among other factors the pomological characteristics including high juice contents, low firmness, thin skin and in some cases long stalk are considered. Long stalk adds losses during incorrect harvest, handling, packaging and transportations. This research was computed in 2007 in Karaj-Iran to investigate on harvest time effect on cold storage life of 7 early -mid early iranian native apple cultivars consisting in: Ghandak-e Kashan, Golab-e Isfahan, Golab-e Kohanz, Mashhad, Koli-e Mahallat, Assali and Ghermez-e Rezayeh. The 16 years old trees located national apple collection of Kamalabad research station. Sampling was programmed in two biological stages: Harvest maturity and ripening. The research experiment was a factorial within completely randomized design. All qualitative parameters were tested in different temporal intervals «weekly, bi weekly, quart weekly», based on earliness class found in each cultivar, during cold storage. The results of physico-chemical tests and panel tests showed that the cultivars were significantly differed in cold storage capacity differing from 1 to 12 weeks. It was highly important that the cultivars do not follow the same biological pattern during storage life.