

## **Identification of Post\_harvest disease and disorders in apple**

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Most of horticultural crops can be grown in Iran. One of these crops is apple that is produced in most of the provinces of Iran.

In the world, Iran with the production of 2 million tons apple, stands in the 10th order of apple producing countries. On the other hand, Khorasan province produces 10 percent of apple crop of Iran and regarding this crop, is 4th state. Golden delicious and Red delicious are two varieties that have the highest rate of production in Iran.

Nearly, 28 percent of apple crop in Iran is wasted before and after harvesting are physiological disorders and fungal diseases the important causes of this wastage.

The scope of this study was identification of important disorders and diseases of apple in post\_harvest period. This research was conducted in 2 cold stores of Mashhad. The results represent that bitter bit, water core, and superficial scald are important disorders, while blue mold rot and core rot are important diseases.

In this research, variety of apple, packing type, and cold store were the factors of consideration. In regard of disorders and diseases, the difference between two varieties (Red & Golden delicious) was strongly important, while in the other factors, there were no strong relations.

Also, for collecting the post\_harvest disorders and diseases of apple, A software was prepared by Delphi programming software in windows medium. In this software, all of the related pictures have been scanned and the user can easily identify the disorder or disease of apple. This software is available on compact diskette (CD).