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
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Studies on the Cold Hardiness of Some Temperate Zone Fruit Species and Cultivars

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Abstract: The research was carried out on apple, peach, nectarine and apricot cultivars during 1992-1994. In this work, the cold hardiness of apple, peach, nectarine and apricot cultivars were investigated. For this purpose, the relationship between the carbohydrates or plant nutrient elements and the cold hardiness of the cultivars were investigated by viability tests. According to the results, apples and among them Granny Smith and Starkrimson cultivars, J.H. Hale and Monroe peach cultivars among the peaches, Maygrand among the nectarines and Precoce de Colomer and Canino apricot cultivars among the apricots were found as the most cold resistant cultivars. This cultivars were found to be more resistant in January and the highest amount of total sugar and macro element contents such as nitrogen, phosphorus and potassium were determined especially in apple cultivars but no direct relationship was found between the cold hardiness and nitrogen content of peach, nectarine and apricots.

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