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Preliminary Investigation of Potential Heavy Metal Pollution

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Apricot: It is a kind of fruit that is used in food, cosmetic and pharmaceutical industry, grown in almost every region due to suitable climate and soil conditions of our country. Commercial dried apricot cultivation is more common in Malatya, Elazığ, Sivas and Kahramanmaraş provinces, while production of table apricot is widespread in the Mediterranean region including Mersin, Antalya and Isparta. In recent years, productivity and quality losses occur due to factors such as disease, insect damage and plant nutrient deficiency in the areas where cultivation is done. In addition to these factors, it is known that heavy metals also prevent vegetative growth in plants, adversely affect the root system and carry them to the fruit. In order to determine the potential heavy metal pollution of apricot orchards and irrigation water, samples were taken from 0-30, 30-60, 60-90 cm deep soil and irrigation water sources of the two different orchards, using dams and drilling of water in Baskil -Elazığ. B and heavy metal analysis such as Mg, Mn, Fe, Cu, Zn, Al, Cr, Ni, Ag, Cd, Pb were determined by ICP-MS method. As a result; Heavy metals such as Mg, Mn, Fe, Cu, Zn, Al, Cr, Ag, Cd were detected in soil.

Keywords: Apricot, Heavy Metal, ICP-MS

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