

# The Accumulation of Heavy Metals in Leaves of Woody and Vegetable Plants

G. Baitasheva, A. Musina, N.O. Myrzakhmetova, H.N. Kobegenova

Faculty of natural sciences

Kazakh State Women's Teacher Training University

Alma-Ata, Kazakhstan

gauhar75e@mail.ru, mussina\_as@mail.ru, nmyrzahmetova64@mail.ru, hadisha.n@mail.ru

**Abstract** - It is shown that the improvement of the environment can be achieved by using the adsorption properties of leaves of woody plants, which are able to absorb the exhaust gases from vehicles, industrial plants, dust and vapors from air. The number of toxic influence of heavy metals on vegetable plants was established with good indicative properties:  $Cd > Ni > Pb$ . Accumulation of heavy metals, leaves of the juniper have any symptoms of poisoning, inhibition of root growth, formation of necrosis, dwarfism, wilting, dropping foliage, etc, especially in leaves exposed to cadmium. Different kinds of heavy metals have their own specifics, which defining the maximum level of exposure in the investigated samples. Virtually all heavy metal compounds are toxic and have carcinogenic effect. It should be noted that the main source of it are the smokestacks of factories, the industrial enterprises and exhaust gases from vehicles. If there is an excess of heavy metals, occur symptoms on plants - growth noticeably slows, getting a dwarf form. Thus, on the basis of obtained data, we get conclusion, that the accumulation of heavy metals by leaves of woody plants, in our case juniper and oak, is due to the passage of the adsorption process of toxic metals contained in the air basin.

**Key words** - adsorption, air, toxic heavy metals, leaves, woody plants.

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