



Harvest amounts and ethnobotanical uses of the juniper (*Juniperus* sp.) seed in Turkey

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Abstract: Juniper (*Juniperus*) is one of the important breeds of the Cupressaceae family with a wide distribution area in Turkey. The junipers, especially those who find their habitat on the coastline, tend to form mixed mounds with the species Pine and Fir. It is very difficult to obtain fertile forests with this genus, which contains important essential species. Because germination of seeds is prohibited. Various methods have been developed to overcome this situation and it has been aimed to use juniper seeds in the laboratory environment for germination and reforestation. Junipers are often preferred in soil remediation work because they are resistant to difficult weather conditions and because their root systems are strong. Juniper species are also individuals with visually impressive body forms. It is also preferred in the field of landscape thanks to these features. Thanks to the volatile oils and active substances (limonene, β -myrcene, Sterols, α -pinene, p-benzoquinone, Lignans, Monoterpenes etc.) that the plant contains various organs, the woods are very valuable and there are many fields (cosmetics, perfumery, medicine, food , Etc.) are used. Thanks to these substances, the düğse are used in the treatment of lung, stomach and skin cancer. In recent years, It is also used in the treatment of diabetes mellitus. Thanks to the oils and carbohydrates found in cones, it is preferred for fattening. It is very important to determine the yields of the essential oils of juniper conch, leaves or other plant organs, and to determine the proportions of their constituents. Various methods have been used for this and studies have been done. In this context, the present data of the Directorate General of Non-Wood Products and Services Department of Forestry between 1989-2015 has been examined and it is aimed to show harvest quantities of juniper seeds according to years, to show the income obtained and to emphasize the use areas of the plant and the active substances it contains. According to the data received from General Directorate of Forestry, Department of Non-Wood Products and Services. First record belongs to year 2000 in the period of 1989-2015. In 2000, for the first time, 16,830 kg juniper seed collected and gained 67,32 TL incomes in the territory of The Forest Regional Directorate Isparta. Acorn was harvested from The Forest Regional Directorate Balıkesir, Isparta, Kahraman Maraş, Kütahya and Eskişehir until now. Maximum amount of juniper seed harvested while performing from The Forest Regional Directorate Eskişehir (in 2015) with 23,145 kg, and minimum amount of harvest was carried out from The Forest Regional Directorate Isparta (in 2002) as 520 kg of juniper seed harvested.

Keywords: Juniper seed, Essential oils, Harvest data, Turkey