

Study on *Rosa damascena* in Iran and some suggestion for raising its production

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Rosa damascena "Mohammadi" is a deciduous shrub from *rosaceae* family. This family has more than 2000 species and 100 genus. "Mohammadi" in most regions of Iran particularly in: Azarbayejan, Isfahan, Markazi, Kerman, Fars, Chaar Mahal and Bakhtiyari, Hamedanm, Semnan, Gonabad, Gorgan and Yazd is farmed and dried flower, rose concentrated water and oil are prepared which is used for food, pharamacy and perfume industry.

Cinsidering ecological condition of our country we can cultivate Mohammadi in many regions, in inferior secondary or thirdary lands, and developing the level of farming and technology of industrial production to get the universal markets.

The most important problem is that the extracted oils in Iran is not homogenous and standard. In our study, with the technique of gas chromatography on oils of Kerman, Kashan, and internal markets we found that components and concentration of thses oils are different. These results may be caused by, lack of homogenous plants, unstandard methods for oil extraction, and effects of different in climate and seasons and etc. So it is suggested:

1. The best types of Mohammadi according to production, duration of flowering and resistance to the stresses and diseases must be identified and collected.
2. Creating young gardens with the selected plants by tissue culture techniques.
3. Studying the best methods of oil and perfume production and standarding the best methods of extraction.
4. To establish modern garden by previous researching and programming and simultaneous establishing modern industry.